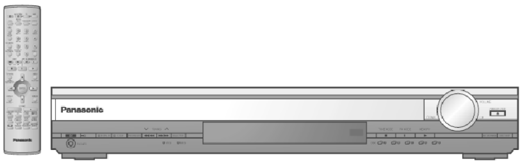
ORDER NO. MD0306215C2

DVD Home Theater Sound System

SA-HT900EB

Colour

(S)... Silver Type



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode, 10 % Total Harmonic Distortion

1 kHz Front CH	55 W per channel (6 Ω)
1 kHz Surround CH	55 W per channel (6 Ω)
1 kHz Center CH	160 W per channel (6 Ω)
100 Hz Subwoofer CH	220 W per channel (4 Ω)
Total RMS Dolby Digital Mode Power	600 W

DIN Output Power: Dolby Digital Mode, 1% Total Harmonic Distortion

1 kHz Front CH	40 W per channel (6 Ω)
1 kHz Surround CH	40 W per channel (6 Ω)
1 kHz Center CH	120 W per channel (6 Ω)
100 kHz Subwoofer CH	150 W per channel (6 Ω)
Total DIN Dolby Digital Mode Power	430 W

Input sensitivity/Input impedance

AUX	250 mV, 15 kΩ

■ FM TUNER SECTION

Frequency range	87.50 - 108.00 MHz (50-kHz steps)
Sensitivity	1.8 μV (IHF)
S/N 26 dB	1.5 μV
Antenna terminal(s)	75 Ω (unbalanced)
Preset station	15

■ AM TUNER SECTION

Frequency range	522 - 1629 kHz (9-kHz steps)
AM Sensitivity S/N 20 dB at 999 kHz	560 μV/m
Preset station	15

■ DISC SECTION

Discs played [8 cm or 12 cm]

(1) DVD-RAM (DVD-VR formatted disc)
(2) DVD-Audio
(3) DVD-Video
(4) DVD/R (DVD-Video formatted disc)
(5) CD-Audio (CD-DA)
(6) Video CD
(7) SVCD (Confirming to IEC62107)
(8) CD-R/CD-RW (CD-DA, Video-CD formatted disc)
(9) MP3/WMA

- Maximum number of tracks and groups recognizable:
  999 tracks and 99 groups
- Compatible compression rate:
  MP3: between 32 kbps and 320 kbps
  WMA: between 48 kbps and 192 kbps

(10) JPEG
- Exif Ver 2.1 JPEG Baseline files
- Maximum number of pictures and groups recognizable:
3000 pictures and 300 groups
- Picture resolution: between 320 x 240 and 6144 x 4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)
(11) HighMAT Level 2 (Audio and Image)

Video	
Signal system	**PAL/PAL60**
Output level	
Composite video	**1 Vp-p (75 Ω)**
S-video Y output level	**1 Vp-p (75 Ω)**
C output level	**0.3 Vp-p (75 Ω)(PAL)**
Component video (Y: green, PB: blue, PR: red)	
Y output level	**1 Vp-p (75 Ω)**
PB output level	**0.7 Vp-p (75 Ω)**
PR output level	**0.7 Vp-p (75 Ω)**
RGB	
G output level	**1 Vp-p (75 Ω)**
B output level	**0.7 Vp-p (75 Ω)**
R output level	**0.7 Vp-p (75 Ω)**
Audio	
Sampling frequency	
CD	**44.1 kHz**
MP3	**44.1 kHz, 48 kHz**
DVD (Linear Audio)	**48 kHz, 96 kHz**
DVD-Audio	**192 kHz**
Decoding	**16/20/24 bit linear**
Number of channels	**5.1 ch (FL, FR, SL, SR, C, SW)**
Frequency response	**20 Hz - 20 kHz (+1, -2 dB)**
Pick up	
Beam Source	**Semiconductor Laser**
Wavelength	
DVD	**658 nm**
VCD/CD	**780 nm**
Wow and flutter	**Less than possible measurement data**
D/A converter	**Delta sigma DAC**
Digital Input (for Dolby Digital)	
Optical In	
Sampling frequency	**32 kHz, 44.1 kHz, 48 kHz**

■ GENERAL

Power Supply	**AC 230-240 V, 50 Hz**
Power consumption	
Main unit	**25 W**
Subwoofer	**250 W**
Power Consumption in standby mode	**0.7 W**
Dimensions (W x H x D)	**430 x 67 x 429 mm**

Mass	**4.4 kg**
■ SYSTEM	
■ System : SC-HT900 (EB)	**Main unit: SA-HT900 (EB)** **Speaker unit: SB-HT900 (P)** **Center speaker: SB-PC701 (P)** **Active subwoofer: SB-WA340 (PP)**
■ Speaker : SB-HT900 (P)	**Front/Surround speaker: SB-FS900 (P) x 4**

Notes:

1. **Specifications are subject to change without notice. Mass and dimensions are approximate.**
2. **Total harmonic distortion is measured by the digital spectrum analyzer.**

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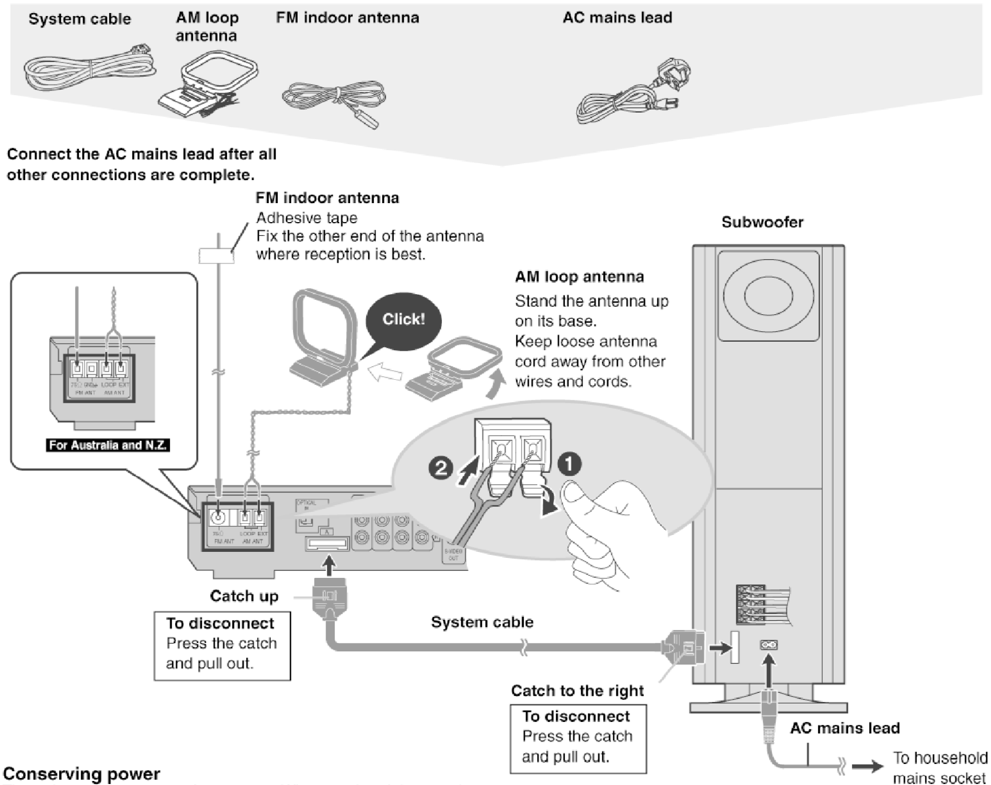
Panasonic

1. Use of Active Subwoofer

1.1. Checking Player with Active Subwoofer

1. **This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.**


System cable
AM loop antenna
FM indoor antenna
AC mains lead
FM indoor antenna
Adhesive tape
Subwoofer
AM loop antenna
Click!
For Australia and N.Z.
❷
❶
Catch up
System cable
Catch to the right
AC mains lead
To household mains socket

Connect the AC mains lead after all other connections are complete.

Fix the other end of the antenna where reception is best.

Stand the antenna up on its base.
Keep loose antenna cord away from other wires and cords.

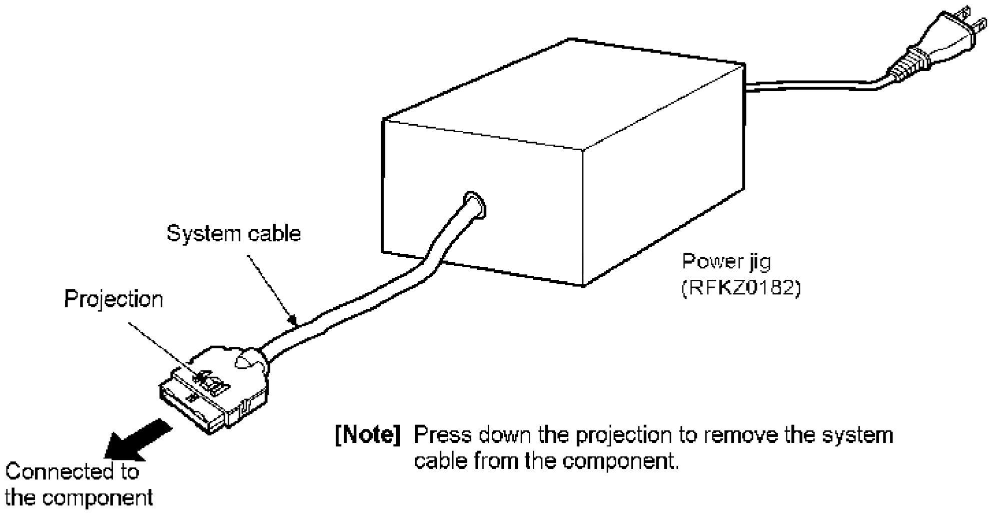
To disconnect
Press the catch and pull out.

To disconnect
Press the catch and pull out.

Conserving power
The unit consumes power (approx. 0.7 W) even when it is turned off with [⏻]. To save power when the unit is not to be used for a long time, unplug it from the household mains socket.
Remember to reset the radio stations and any other memory items before using the unit again.
Information you enter into the unit's memory remains intact for up to 2 weeks after the AC mains lead is disconnected.

For the United Kingdom only
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.

2. If the active subwoofer is not available due to repair of the unit, use the following equipment.


System cable
Projection
Power jig
(RFKZ0182)
Connected to
the component

[Note] Press down the projection to remove the system cable from the component.

Jig product number
RFKZ0182 (110V , 127V, 220V, 230V - 240V for overseas domestic use)

2. Before Repair and Adjustment (Using Active Subwoofer Unit)

Disconnect AC power, discharge Power Supply Capacitors C546 , C547, C548 & C549 through a 10 Ω , 1W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlines below:

1. **Switch OFF the power.**
2. **Determine the cause of the problem and correct it.**
3. **Switch ON the power once again.**

Note :
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

4. Safety Precautions

4.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

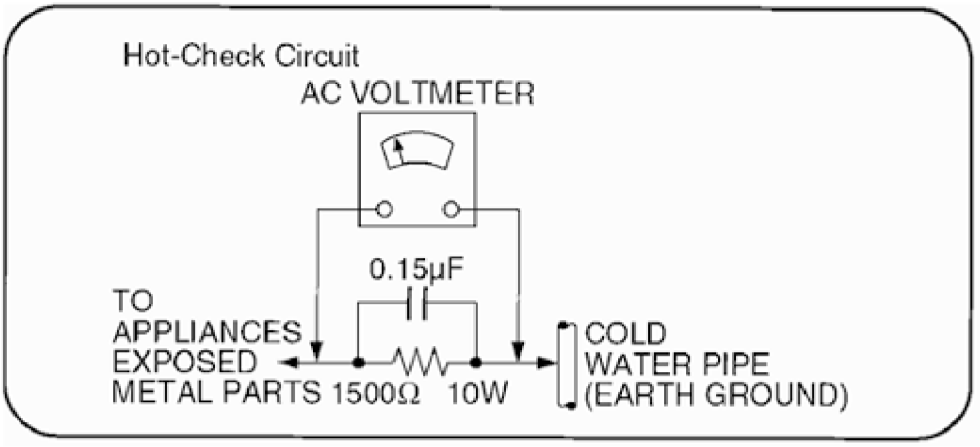
4.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two**

prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
When the exposed metal does not have a return path to the chassis, the reading must be ~.

Figure 1



4.1.2. Leakage Current Hot Check / (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15 μF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified,

there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

5. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

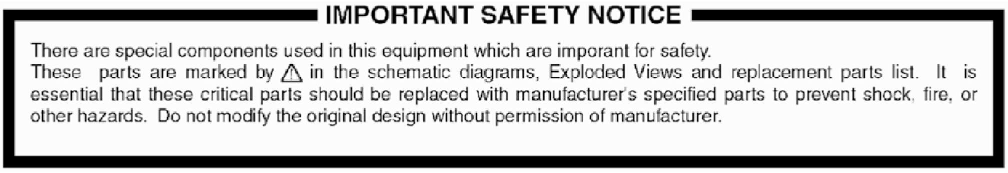
Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

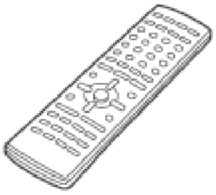


IMPORTANT SAFETY NOTICE

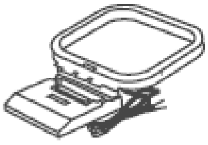
There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

6. Accessories

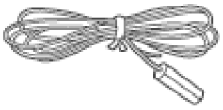
Remote control



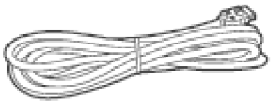
AM loop antenna



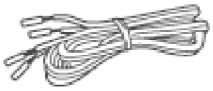
FM indoor antenna



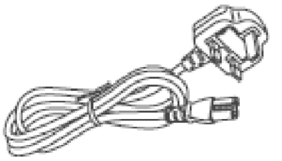
System cable



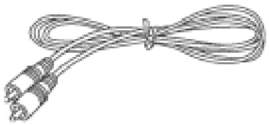
5 Speaker cables



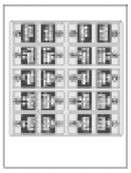
AC main lead



Video cable



1 Sheet of speaker-cable stickers



Antenna plug adaptor

7. Caution for AC Main Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

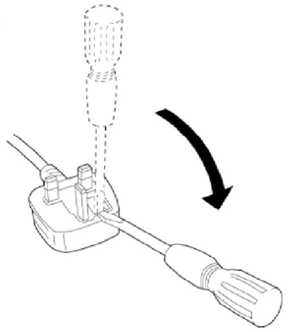
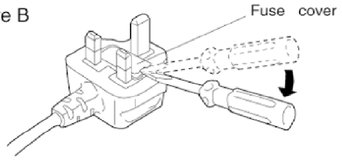


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

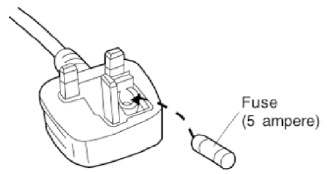
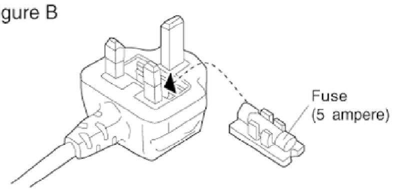


Figure B



8. Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 658nm(DVD)/780nm(VCD/CD).
Maximum output radiation power from pickup: 100 μ W/VDE
When the unit is turned on :

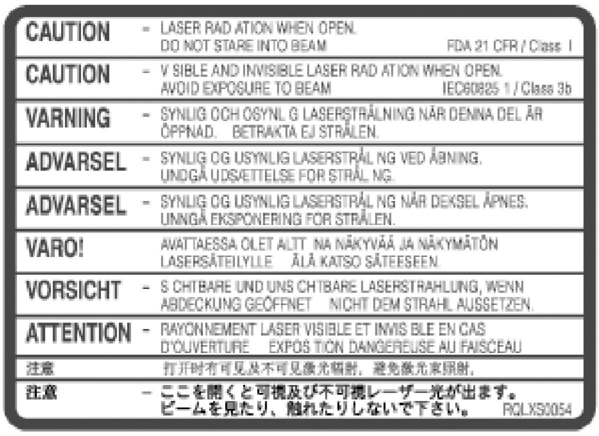
1. Do not look directly into the pick up lens.

2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

CAUTION!

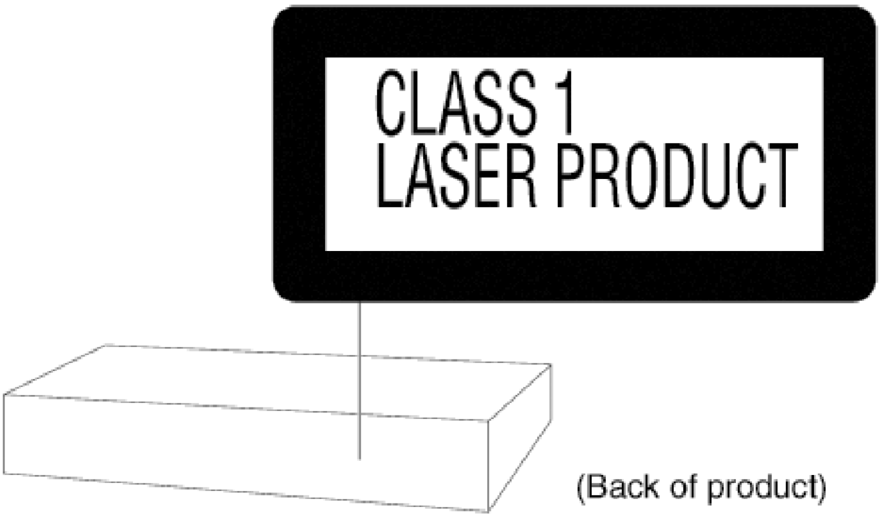
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of Caution Labels



CAUTION	-	LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM FDA 21 CFR / Class I
CAUTION	-	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM IEC60825-1 / Class 3b
VARNING	-	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	-	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	-	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!		AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	-	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	-	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU
注意		打开时有可见及不可见激光辐射，避免激光束照射。
注意	-	ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0054

(Inside of product)



(Back of product)

9. Handling the Lead-free Solder

9.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the**

soldering points with the Pb free solder until it melts enough.

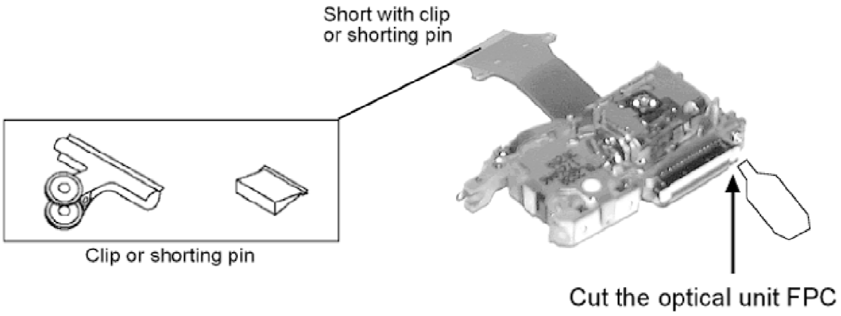
10. Cautions to be taken when handling Optical Pickup

The laser diode used inside optical pickup could be destroyed due to static electricity as a potential difference is caused by electrostatic load discharged from clothes or human body. Handling the parts carefully to avoid electrostatic destruction during repair.

10.1. Handling Optical Pickup

1. Do not impact on optical pickup as the unit structurally uses an extremely precise technology.
2. Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 10.1 and Fig. 10.2)
3. Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 10.1)
4. A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 10.1)

Fig. 10.1



10.2. Cautions to be taken during replacement of Optical Pickup

Supplied optical pickup is equipped with a short clip found its flexible cable in order to prevent electrostatic destruction of laser diode. Before connection, remove the short clip, and check that the short land is opened. (Remove solder if the part is short-circuit).

10.3. Grounding for Preventing Electrostatic Destruction

1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 10.2)

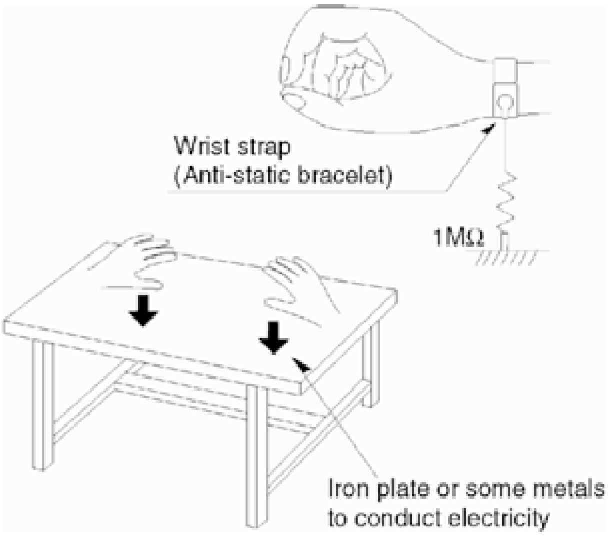
2. Work place grounding

Place a conductive material (conductive sheet) or ironboard where optical pickup is placed. (Refer to Fig. 10.2)

Note :

Keep your clothes away from optical pickup as wrist strap does not release the static electricity charged in clothes.

Fig. 10.2



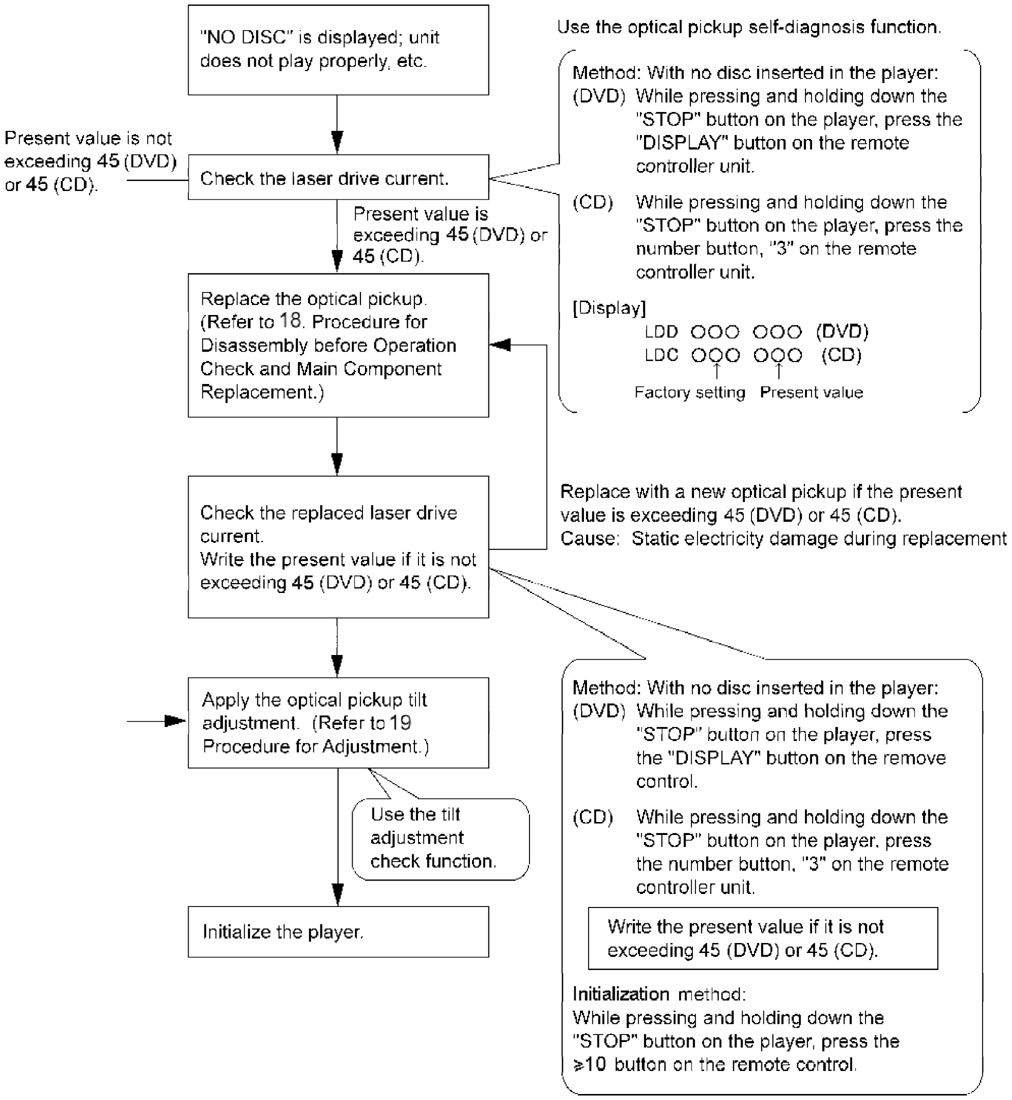
11. Optical Pickup Self-Diagnosis and Replacement Procedure

11.1. Self-diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when "NO DISC" is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 45 (DVD) or 45 (CD).

Note:

Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).


"NO DISC" is displayed; unit does not play properly, etc.
Check the laser drive current.
Present value is not exceeding 45 (DVD) or 45 (CD).
Present value is exceeding 45 (DVD) or 45 (CD).
Replace the optical pickup. (Refer to 18. Procedure for Disassembly before Operation Check and Main Component Replacement.)
Check the replaced laser drive current.
Write the present value if it is not exceeding 45 (DVD) or 45 (CD).
Apply the optical pickup tilt adjustment. (Refer to 19 Procedure for Adjustment.)
Use the tilt adjustment check function.
Initialize the player.
Use the optical pickup self-diagnosis function.
Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remote controller unit.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.
[Display]
LDD OOO OOO (DVD)
LDC OOO OOO (CD)
Factory setting
Present value
Replace with a new optical pickup if the present value is exceeding 45 (DVD) or 45 (CD).
Cause: Static electricity damage during replacement
Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remove control.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.
Write the present value if it is not exceeding 45 (DVD) or 45 (CD).
Initialization method:
While pressing and holding down the "STOP" button on the player, press the ≥10 button on the remote control.

11.2. Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

Before replacing the optical pickup and spindle motor, check a total usage time respectively. Follow the checking method described below.

Item	Status and Key Function	Display
Checking DVD, CD laser usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▲ button on the remote controller unit.	T1_xxxx_yyyy / xxxx(DVD), y total time is displayed with a digit number by the ten hour
Checking spindle motor usage time	While the DVD and CD laser usage times are displayed, press the ■ button on the player and the ▼ button on the remote controller unit.	T1_0000_0000
Resetting DVD, CD laser usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▶ button on the remote controller unit.	T2_xxxx / xxxx: total time is displayed with a four-digit nu the ten hours.
Resetting spindle motor usage time	While the spindle motor usage time is displayed, press the ■ button on the player and the ◀ button on the remote controller unit.	T2_0000

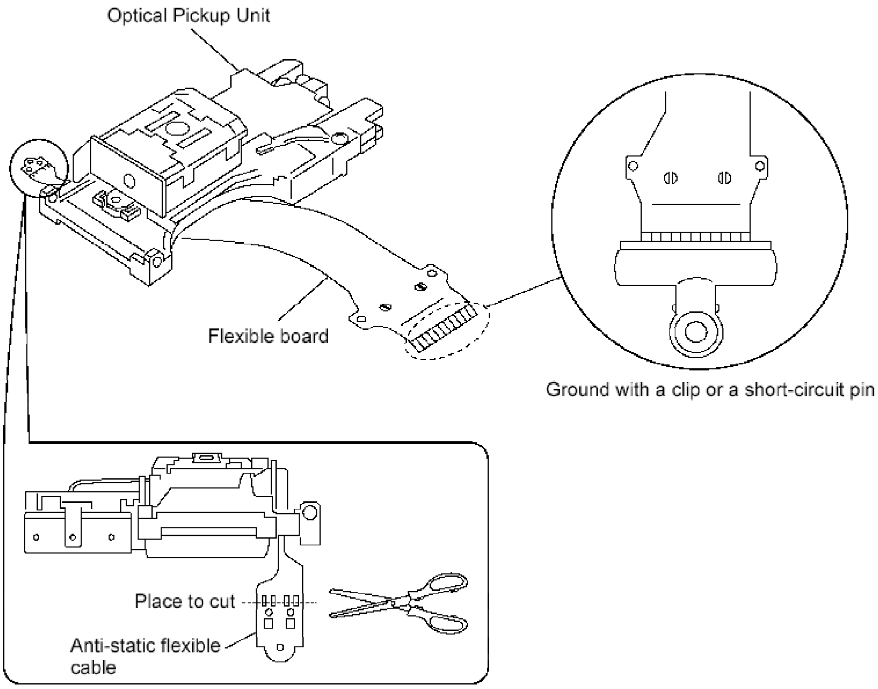
11.2.1. Cautions to be taken during replacement of optical pickup

Optical pickup could be damaged due to the static electricity discharged from human body. Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to "Cautions to Be Taken When Handling Optical Pickup".)

- **Do not touch laser diode, actuator and their peripherals.**
- **Do not check laser diode with a tester and such. (The tester will be destroyed.)**
- **For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. (Recommended model: HAKKO ESD product)**
- **Solder the land of the flexible cable in the optical pickup.**

Note:

If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.


Optical Pickup Unit
Flexible board
Ground with a clip or a short-circuit pin
Place to cut
Anti-static flexible cable

12. Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

12.1. Automatic Displayed Error Codes

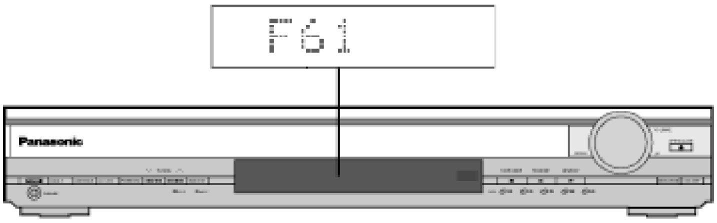
12.1.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.

Fig. 12-1


F61
Panasonic

12.1.2. Re-Display

- **For F61 Display**
- **When the code, F61 is displayed, the power is automatically turned off.**
- **The code, F61 is displayed for three seconds, and then the current time appears.**
- **To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds,**

and the power is automatically turned off.

12.1.3. Description of Error Code

12.1.3.1. F61

- State, Condition

When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

12.2. Memorized Error Codes

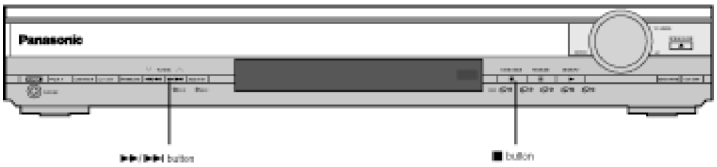
12.2.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.

2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button for at least two seconds, and press the "0" button on the remote control for at least two seconds in order to display "DVD_F_ _ _ ".

3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) / If several errors are detected, press the ■ button to display each.

Fig. 12-2



12.2.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.

- The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, "Activating Self-Diagnosis Function and Displaying Method".

12.2.3. Deleting Details of Self Diagnosis

- After repair, press and hold down the ■ button for at least five seconds, [CLEAR] appears for a second and then "T________" appears. (Deleting the details of self diagnosis)

- After repairing errors, be sure to delete the details of self diagnosis.

12.3. Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote controller unit	Usage
■ button	0	Error code display (Refer to the item, 11.4. DVD Error Code Des
	5	Tilt adjustment
	6	Region number and broadcasting system check
	7	Built-in program version check
	DISPLAY	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical (Do use this function only when optical pickup is replaced.)
	≧10	Initialization of the player (factory setting is restored.) / Used af replacement of micro-computer and its peripherals and printed board.

12.4. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV ser
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
DSC system		
F500	DSC failure	DSC stops due to servo failure. / (Startu failure, etc.)
F501	DSC not Ready failure	Communication failure between DSC an computer / (No communication because does not move)
F502	DSC Time out failure	See F500.
F503	DSC communication failure	Communication failure (Result failure o after communication command is trans
F505	DSC Attention Error	See F500.

Error Code	Meaning	Details
F506	Invalid media	Disc is placed upside down; TOC is unr or invalid disc is inserted.
Disc Code		
F103	Ilegal highlight position	Disc standard is possibly illegal when h is displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
F880	Unsuitable task number	When a message arrives from not existi
F890	A message is sent during AV task transmission	During transmission of a message to A
F891	Unable to transmit a message to AV task	When transmission of a message to AV starts
F893	FROM altered	
F894	EEPROM failure	
F8A0	Unsuitable message command	When transmission of a message to AV starts

12.5. Error Codes Stored During No Play

Error Code	Meaning	System Computer Item	Setting Task	Internal system
F0BF	6) Unable to replay due to physical layer identification failure	PCND_NOPLAY_PHYSICAL 0x50	DriveManager	0xD0BF
F0C0	8) DVD: Unable to replay due to no DVD Video/Audio/VR	PCND_NOPLAY_VIDEO 0x70	DiscManager	0xD0C0
F0C1	9) DVD: Prohibited due to illegal regional code	PCND_NOPLAY_RCD 0x80	DiscManager	0xD0C1
F0C2	A) DVD: No replay due to PAL system	PCND_NOPLAY_PAL 0x90	DiscManager	0xD0C2
F0C3	B) DVD: All title replay prohibited in parental setting	PCND_NOPLAY_PTL 0xA0	DiscManager	0xD0C3
F0C4	C) VCD: Prohibited due to PHOTO CD format	PCND_NOPLAY_PHOTOCD 0xB0	DiscManager	0xD0C4
F0C5	D) VCD/CD: Prohibited due to CD -ROM without CD-DA	PCND_NOPLAY_CDROM 0xC0	DiscManager	0xD0C5

12.6. Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	To
Jitter display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.	Jitter display / Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	J*1 xxx*2 _yyy*3 _zz*4 / / *1 : Jitter display mode / *2 : Jitter measurement value / *3 : Read error counter / *4 : Focus driving value Values are shown to one decimal place in the decimal digit.Focus driving value is displayed in the hexadecimal digit.	Pre STO OPE
Error code display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “0” on the remote controller unit.	Error code display / Displays the latest error code stored in EEPROM.	DVDnn_F--- / *nn: Error history / *--: Error number	Aut exit mod five

Item	Operational Condition and Key Function	Details	Display	To
Measurement of laser current electricity initialization value	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ❚❚ button on the remote controller unit.**	**Measurement of laser current electricity initialization value / Memorizes each initialization value of DVD and CD in EEPROM.**	**LDO*1 _038*2 _030*3 / / *1 : Laser current electricity measurement mode / *2 : DVD current electricity value / *3 : CD current electricity value** **Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 38mA at DVD laser and 30mA at CD laser when laser is turned on.**	**Aut exit mod five**
Measurement of DVD laser current electricity	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the DISPLAY button on the remote controller unit.**	**Measurement of DVD laser current electricity / Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).**	**LDD*1 _037*2 _037*3 / / *1 : DVD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity** **Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 37mA and its present value is 37mA.**	**Aut exit mod five**

Item	Operational Condition and Key Function	Details	Display	To
ADSC internal RAM display	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “1” or “2” on the remote controller unit.**	**ADSC internal RAM display / Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.**	**A*1 _FB0*2 _FC00*3 / / *1 : ADSC internal RAM display mode / *2 : Address / *3 : RAM value at displayed address Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, 0FAh is 6901h.**	**Pre ST OP**
Measurement of CD laser current electricity	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “3” on the remote controller unit.**	**Measurement of CD laser current electricity / Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).**	**LDC*1 _030*2 _030*3 / / *1 : CD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 30mA and its present value is 30mA when laser is turned on.**	**Aut exit mo five**

Item	Operational Condition and Key Function	Details	Display	To I
User initialization	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button ≧10 on the remote controller unit.**	**User initialization / The user setting recovers the factory setting.**	**“INITIALIZE”**	**Aut exit mod five**
Region display	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “6” on the remote controller unit.**	**Region display**	**[srrrxxyzzzz] / / s : Panecon model type / rrr : Panecon release number / x : Syscon generation (45) / y: Syscon model type / zzz: Syscon release number**	**Aut exit mod five**

Item	Operational Condition and Key Function	Details	Display	To
Firmware version display	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit.**	**Firmware version display**	**rrr*1 _xx*2 y*3 zzz*4 / / *1 : Panel computer release number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number**	**Aut exit mod five**
Region and firm display	**While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.**	**Region and firm version display**	**_r*1 __xx*2 y*3 zzz*4 / / *1 : Region number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number**	**Aut exit mod five**

Item	Operational Condition and Key Function	Details	Display	To
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▲ button on the remote controller unit.	Laser usage time / Measures each for DVD and CD respectively.	T1_1234_5678 / / The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Aut exit mod five
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Laser usage time reset / Resets both for DVD and CD at once.	T1_0000_0000	Aut exit mod five
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T2_12345 / / The four-digit number is shown by the ten hours in the decimal digit. The number after 00000 is 99999.	Aut exit mod five

Item	Operational Condition and Key Function	Details	Display	To
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset / Spindle motor usage time	T2_00000	Aut exit mod five
Communication error display /	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the MENU button on the remote controller unit.	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	E_00_00_00	Aut exit mod five

12.7. Tray Lock Function

12.7.1. Setting

- Disc Lock Function

1. With the SELECTOR on DVD/CD and POWER ON, hold down the [■ STOP] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter to Lock mode A.[_ _ _LOCKED_] will be displayed for 3 seconds, and then current disc will begin playing.
2. In Lock mode A, the following key is disabled.
   [OPEN/CLOSE]

- Operation Lock Function

1. **With the SELECTOR on DVD/CD and POWER ON, hold down the [CD PLAY] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B. [_ _ _ LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.**
2. **Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.**

Note:

OPEN/CLOSE ⏏ button are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD function.**
2. **Press and hold down the ▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)**

Note:

The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

Main unit: POWER , STOP , SELECTOR , DISC SKIP , VOLUME, DOWN, UP

Remote control: C.S.M,SLEEP , REPEAT , 1-9, 0, ≥10/-/-- , RETURN ,
FL DISPLAY , CH SELECT, TEST , DISPLAY ,
STOP , PAUSE , |◀◀ , ▶▶| , ◀◀ , ▶▶ ,
MUTING, SET UP , GROUP , P. MEMORY , TUNER/BAND ,
DVD/CD , AUX

12.8. Things to Do After Repair

Follow the procedure described below after repair.

1. **While the power is on, press the ⏏ button to close the tray.**
2. **Press the power button to turn off the power.**
3. **Unplug the power cable.**

Note:

It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

13. Cautions To Be Taken During Servicing

13.1. Recovery after the dvd player is repaired

- When FLASH ROM or module P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.
- Recovery disc (Product number=RFKZD03R004)
- Performing recovery

1. Load the recovery disc (Product number: RFKZD03R004) to the player and run it.
2. Recovery is performed automatically. When it is finished, a message appears on the screen.
3. Remove the recovery disc.
4. Turn off the power.

Note:
This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item "Initialization" in 9.6 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

13.2. DVD Player Firmware Version Upgrade Process

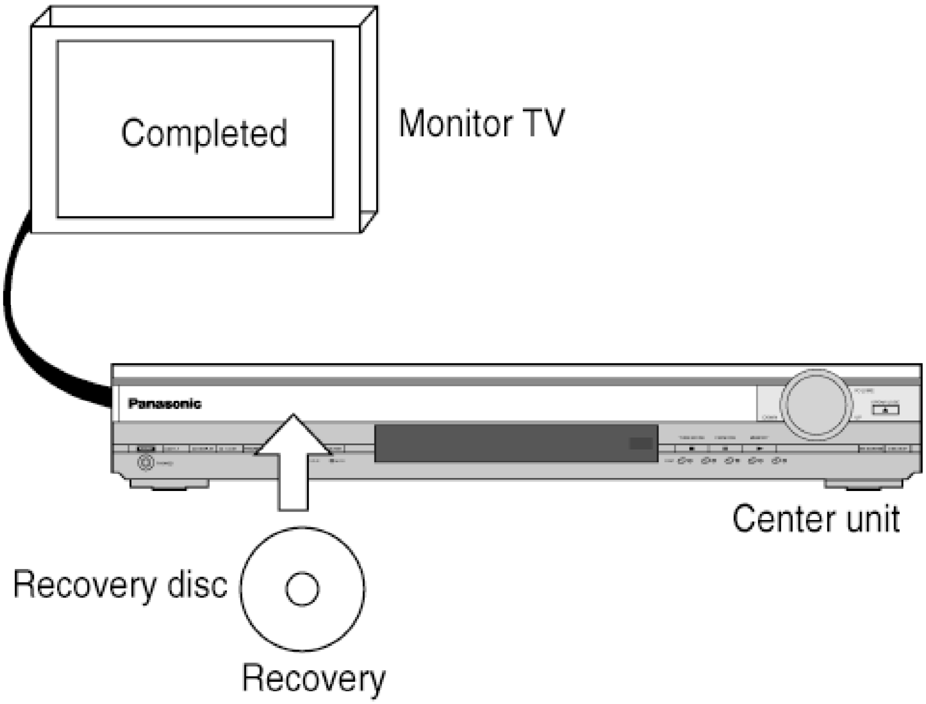
Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:
Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM and restart version upgrade. Version upgrade disc number is informed when ordered.

13.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process
- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD -R disc allows version upgrade process and recovery process, making version upgrade through disc simple. / Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board / Version upgrade process: Renewal of firmware for improvement of operational range and performance



13.3.1. Self-Diagnosis Function

- **Total usage time display (spindle motor, DVD/CD laser)**
- **ADSC internal RAM display**
- **Others: Last error count......20 items**

Efficiency of failure diagnosis is expected to improve by using the above functions together with the repair process.

[Purpose of Use]
Total usage time display: used for estimating a failure due to exhausted spindle motor, laser, or other parts.
ADSC internal RAM display: used for deciding servo system failure according to servo learning values.

13.4. Using Recovery Disc

13.4.1. Recovery Process

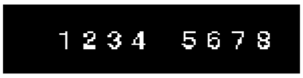
1. **Insert the recovery disc (RFKZD03R004) to the player to replay.**
2. **The recovery process automatically starts, and a message of completion prompts on the screen.**
3. **Remove the disc.**
4. **Turn off the power.**

13.4.2. Version Upgrade Process

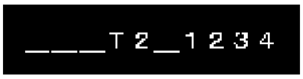
1. Insert the recovery disc to the player to replay.
2. The version of player is automatically checked and prompts if necessary.
3. Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)
4. a. If YES is selected, the process starts.
   b. If NO is selected, only the recovery process is applied.
5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.
   b. Follow the instruction appearing on the screen, and remove the disc.
6. Turn off the power.

13.5. Total Usage Time Display

1. Details of Operation/Display



Total usage time of DVD/CD lasers
Time is shown by the ten hours in the decimal digit.



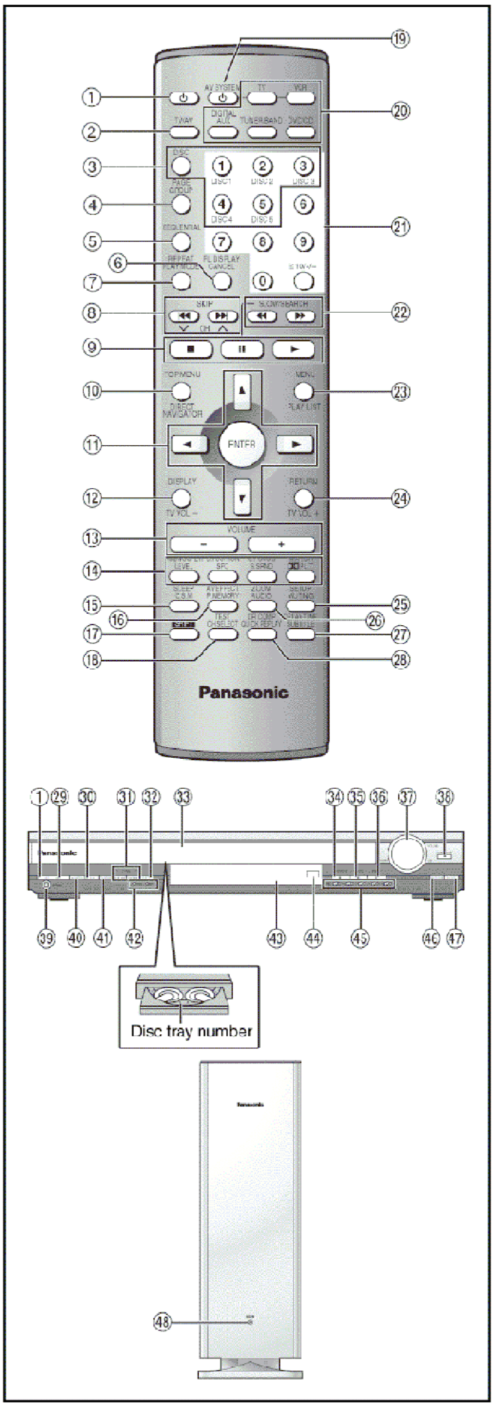
Total usage time of spindle motor
Time is shown by the ten hours in the decimal digit.

Keys for Operation: / Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▲ button on the remote controller unit. / Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▶ button on the remote controller unit. /   / To reset the usage time, while the usage time is displayed: / Laser usage time: press both the ■ button on the player and the ▼ button on the remote controller unit. / Spindle motor usage time: press both the ■ button on the player and the ◀ button on the remote controller unit.

2. Purpose of Use
   To obtain reference data of laser and spindle motor systems during failure diagnosis. / To check faulty parts during re-repair.

14. Operation Procedure

Control reference guide



Remote control

① **Standby/on switch [⏻]**
② **TV/AV button [TV/AV]**
③ **Disc select button [DISC], Disc buttons [DISC1]–[DISC5]**
④ **Group, Page button [GROUP, PAGE]**
⑤ **Sequential button [SEQUENTIAL]**
⑥ **Cancel, FL display button [CANCEL, FL DISPLAY]**
⑦ **Play mode, Repeat button [PLAY MODE, REPEAT]**
⑧ **Skip, Preset channel, TV channel button**
[⏮ ⏭, SKIP, ∨ CH ∧]
⑨ **Basic operation buttons**
⑩ **Top menu, Direct navigator button**
[TOP MENU, DIRECT NAVIGATOR]
⑪ **Cursor buttons [▲, ▼, ◄, ►], Enter button [ENTER]**
⑫ **Display, TV volume down button [DISPLAY, TV VOL−]**
⑬ **Volume buttons [−, +, VOLUME]**
⑭ **Sound field, sound quality buttons**
Dolby Pro Logic II button [▯▯PLII]
⑮ **Custom sound memory, Sleep button [C.S.M, SLEEP]**
⑯ **Position memory, AV effect button**
[P.MEMORY, AV EFFECT]
⑰ **Shift button [SHIFT]**
To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.
⑱ **Channel select, Test button [CH SELECT, TEST]**
⑲ **AV system standby/on button [⏻, AV SYSTEM]**
⑳ **Source select buttons**
Face towards this unit to change the source.
Press [TV] or [VCR] first to operate a Panasonic television or video cassette recorder.
AUX, DIGITAL input button [AUX, DIGITAL]
㉑ **Numbered buttons [1–9, 0, ≧10/-/--]**
㉒ **Slow/search, Tuning buttons**
[◄◄, ►► SLOW/SEARCH]
㉓ **Menu, Play list button [MENU, PLAY LIST]**
㉔ **Return, TV volume up button [RETURN, TV VOL+]**
㉕ **Muting, Setup button [MUTING, SETUP]**
㉖ **Audio, Zoom button [AUDIO, ZOOM]**
㉗ **Subtitle, Delay time button**
[SUBTITLE, DELAY TIME]
㉘ **Quick replay, Dynamic range compression button**
[QUICK REPLAY, DR COMP]

Main unit

① **Standby/on switch [⏻/I]**
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
㉙ **Standby/on indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
㉚ **Custom Sound Memory button [C.S.M]**
㉛ **Skip/search, Tuning buttons**
[⏮/◄◄, ►►/⏭, ∨ TUNING ∧]
㉜ **Source select button [SELECTOR]**
DVD/CD→FM→AM→TV→VCR→AUX
㉝ **Drawer**
㉞ **Stop, Tune mode button [■, TUNE MODE]**
㉟ **Pause, FM mode button [❚❚, FM MODE]**
㊱ **Play, Memory button [►, MEMORY]**
㊲ **Volume control [VOLUME, DOWN, UP]**
㊳ **Drawer open/close button [⏏, OPEN/CLOSE]**
㊴ **Headphone jack [PHONES]**
㊵ **DIGITAL IN button [DIGITAL IN]**
㊶ **Progressive out button [PROGRESSIVE]**
㊷ **Multi rear surround, Virtual rear surround indicators**
[M.R.S, V.R.S]
㊸ **Display**
㊹ **Remote control signal sensor**
㊺ **Disc indicators [DISC 1–5]**
㊻ **Disc exchange button [DISC EXCHANGE]**
㊼ **Disc skip button [DISC SKIP]**

Subwoofer

㊽ **AC supply indicator [AC IN]**
This indicator lights when the unit is connected to the AC mains supply.

15. Disc information

■ Discs that can be played

DVD-RAM	DVD-Audio	DVD-Video	DVD-R	SVCD	Video CD	CD	CD-R/RW
DVD RAM RAM4.7 Shown as "DVD-VR" on the display	DVD AUDIO	DVD VIDEO DVD VIDEO	DVD R R4.7	COMPACT disc SUPER VIDEO Conforming to IEC62107	COMPACT disc DIGITAL VIDEO	COMPACT disc DIGITAL AUDIO TEXT COMPACT disc DIGITAL AUDIO	–
RAM	DVD-A	DVD-V		VCD		CD	WMA* MP3 JPEG*

*DVD-F61 is not compatible with WMA, JPEG, or HighMAT. References to them apply only to DVD-F65.**

Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly. Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.

It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SACD, Divx Video Discs, Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number	Example
U.S.A. and Canada	1	1 ALL 1 2 4
Asia	3	3 ALL 2 3 6
Australia and N.Z.	4	4 ALL 2 4 6

■ Built-in decoders

This unit has Dolby Digital and DTS decoders so you can enjoy these systems in stereo without connecting a separate decoder.

■ Video systems

Units for Asia, Australia and N.Z.:

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (➔ page 18, Video—NTSC Disc Output).
- Output is interlace (576I) when playing PAL discs.

Units for the U.S.A. and Canada:

NTSC is used. This unit converts still pictures on PAL system DVD-Audio discs for play on NTSC video systems. The picture is compressed to show it in its entirety, but this may cause it to be stretched vertically.

■ Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

■ DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove discs from their cartridges before use and return them when you are finished, making sure that the labels of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

■ DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

■ CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, SVCD (conforming to IEC62107), WMA, MP3, or JPEG. Close the session or finalize after recording.

See page 11 for more information about WMA, MP3, and JPEG.

■ HighMAT discs

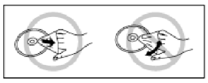
This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

■ Disc structure

Disc structure and the labels given to the items on discs depend on the disc type.

Track:	the smallest division on DVD-Audio, CDs, and Video CDs, or a single WMA/MP3 file.
Chapter:	the smallest division on DVD-Video.
Group:	collections of tracks on DVD-Audio and equivalent to folders or albums on data discs.
Title:	the largest division on DVD-Video, usually an entire movie.
Program:	the division on DVD-RAM equivalent to a single recording.
Picture:	a single JPEG file.
Play list:	the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.
Scene:	DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.
Content:	covers tracks and pictures on HighMAT discs.

■ To clean discs



DVD-Audio, DVD-Video, Video CD, CD

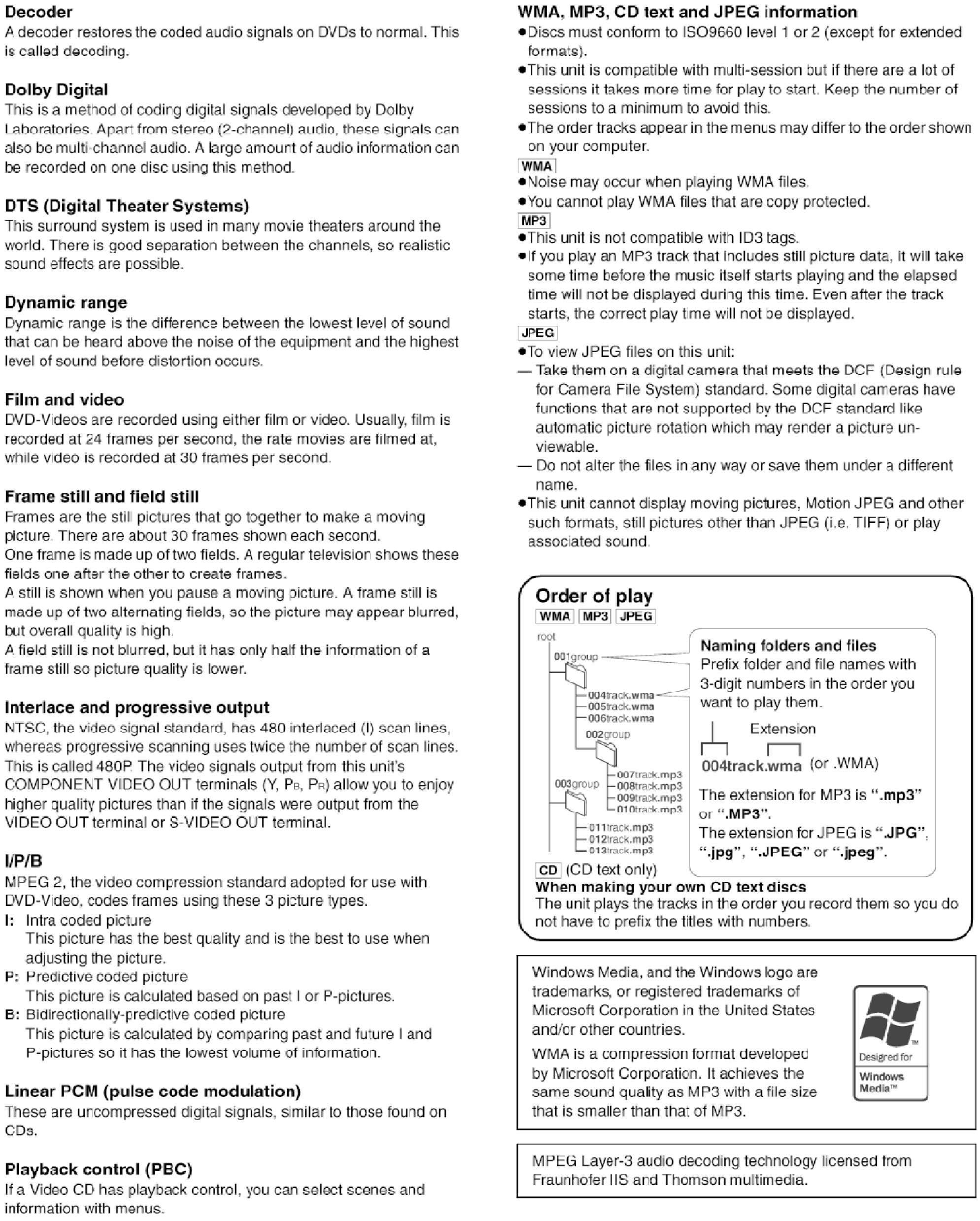
Wipe with a damp cloth and then wipe dry.

DVD-RAM, DVD-R

- Clean only with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

■ Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.



Decoder
A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range
Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Film and video
DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

Frame still and field still
Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.
One frame is made up of two fields. A regular television shows these fields one after the other to create frames.
A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

Interlace and progressive output
NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480P. The video signals output from this unit's COMPONENT VIDEO OUT terminals (Y, P_B, P_R) allow you to enjoy higher quality pictures than if the signals were output from the VIDEO OUT terminal or S-VIDEO OUT terminal.

I/P/B
MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.
I: Intra coded picture
This picture has the best quality and is the best to use when adjusting the picture.
P: Predictive coded picture
This picture is calculated based on past I or P-pictures.
B: Bidirectionally-predictive coded picture
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)
These are uncompressed digital signals, similar to those found on CDs.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus.

WMA, MP3, CD text and JPEG information
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- The order tracks appear in the menus may differ to the order shown on your computer.

WMA
- Noise may occur when playing WMA files.
- You cannot play WMA files that are copy protected.

MP3
- This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.

JPEG
- To view JPEG files on this unit:
  - — Take them on a digital camera that meets the DCF (Design rule for Camera File System) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture un-viewable.
  - — Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, Motion JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.

Order of play
WMA **MP3** **JPEG**

Naming folders and files
Prefix folder and file names with 3-digit numbers in the order you want to play them.

004track.wma (or .WMA)

The extension for MP3 is "**.mp3**" or "**.MP3**".
The extension for JPEG is "**.JPG**", "**.jpg**", "**.JPEG**" or "**.jpeg**".

CD (CD text only)
When making your own CD text discs
The unit plays the tracks in the order you record them so you do not have to prefix the titles with numbers.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

16. About HighMAT

16.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co., Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard. HighMAT is a a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

16.2. Why use HighMAT?

Up to now, there was no harmonized standard fro playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players.Therefore, we used to have

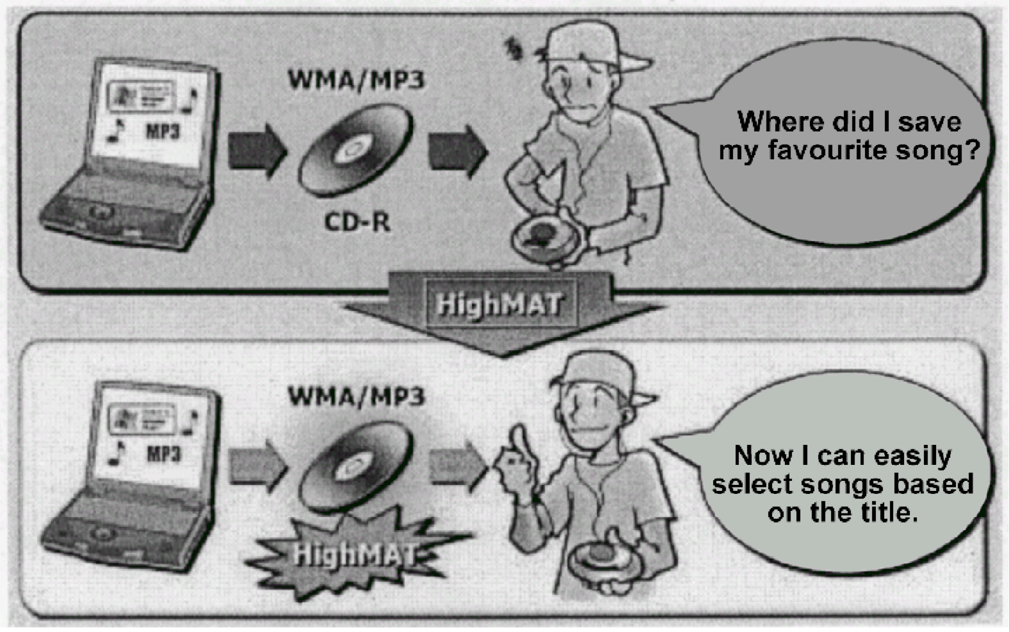
probblems such as follow:

- **There was no common play list or attached information on contents, which is called metadata.**
- **The data compression method differed according to the equipment.**
- **As the number of CD-ROMs recorded increased retrieved the contents became more difficult.**
- **Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.**

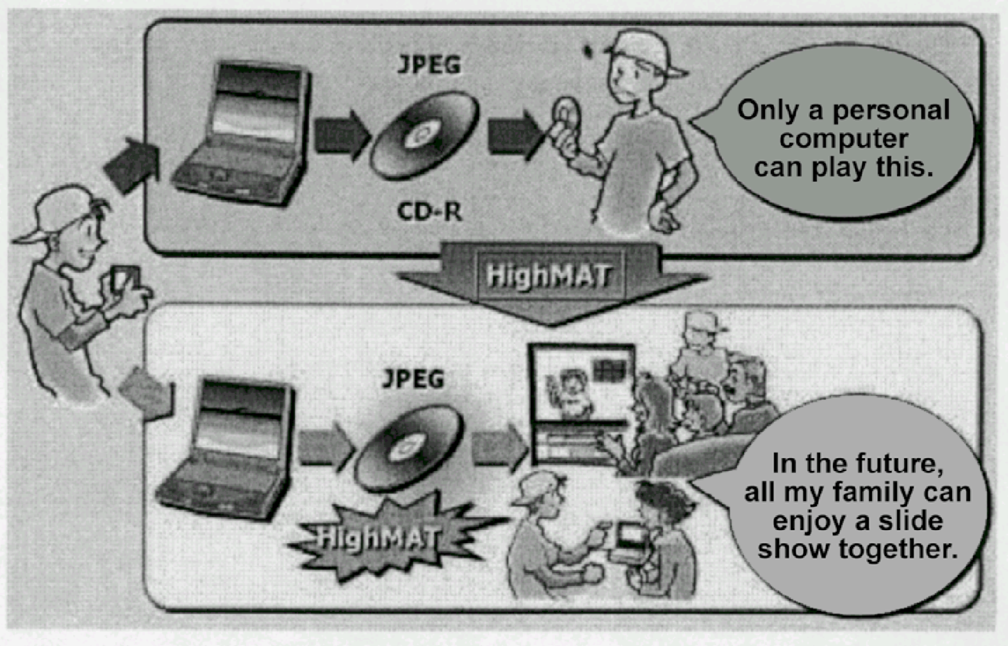
16.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- **It will create a common user interface for both PC and consumer products.**


MP3
WMA/MP3
CD-R
Where did I save my favourite song?
HighMAT
MP3
WMA/MP3
HighMAT
Now I can easily select songs based on the title.

- **Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.**

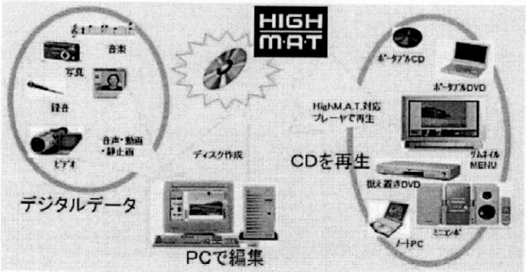

JPEG
CD-R
Only a personal computer can play this.
HighMAT
JPEG
HighMAT
In the future, all my family can enjoy a slide show together.

- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

16.4. Outline of the HighMAT standard

1. Recording medium

- CD-R/CD-RW
- Supports ISO 9660 Level Expanded Joliet
- For multiple session


HIGH M·A·T
音楽
写真
録音
音声・動画
・静止画
ビデオ
デジタルデータ
ディスク作成
PCで編集
HighM.A.T.対応
プレーヤで再生
CDを再生
ポータブルCD
ポータブルDVD
サムネイル
MENU
据え置きDVD
ミニコンポ
ノートPC

2. Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)
- Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG
- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)

3. Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.
- WMA, V2 and above, excluding Lossless/Voice/Pro
- JPEG: Max 6M pixel, Maximum file size: 3 MB

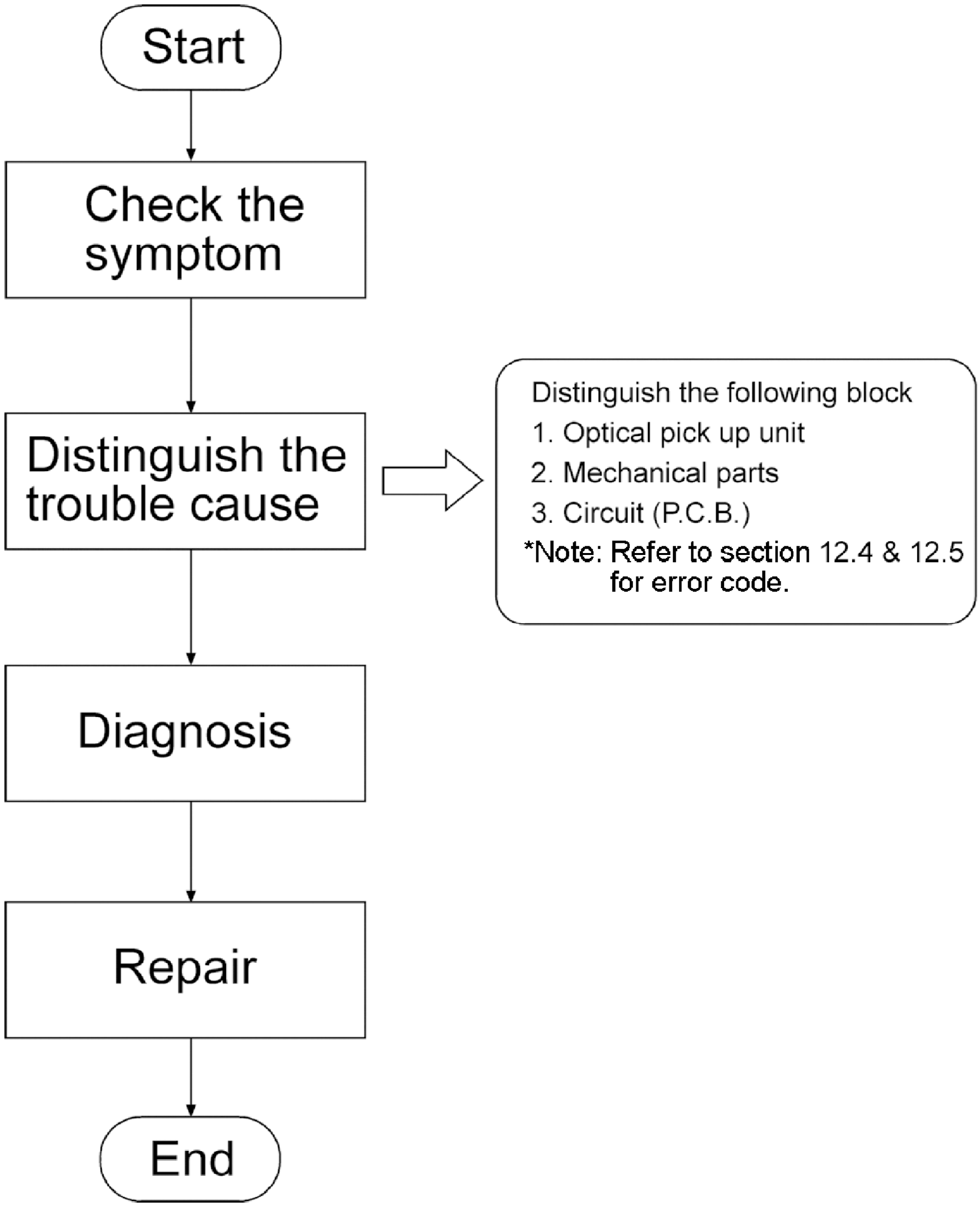
4. Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450
- Total number of still picture files: Maximum 999
- Total number of animation files: Maximum 200
- Total number of directories: Maximum 400
- Length of a file name: Maximum 108 characters (Unicode)
- Total number of play lists: Maximum 200
- Number of contents in the playlist: Maximum 900

5. Composition of HighMAT disc

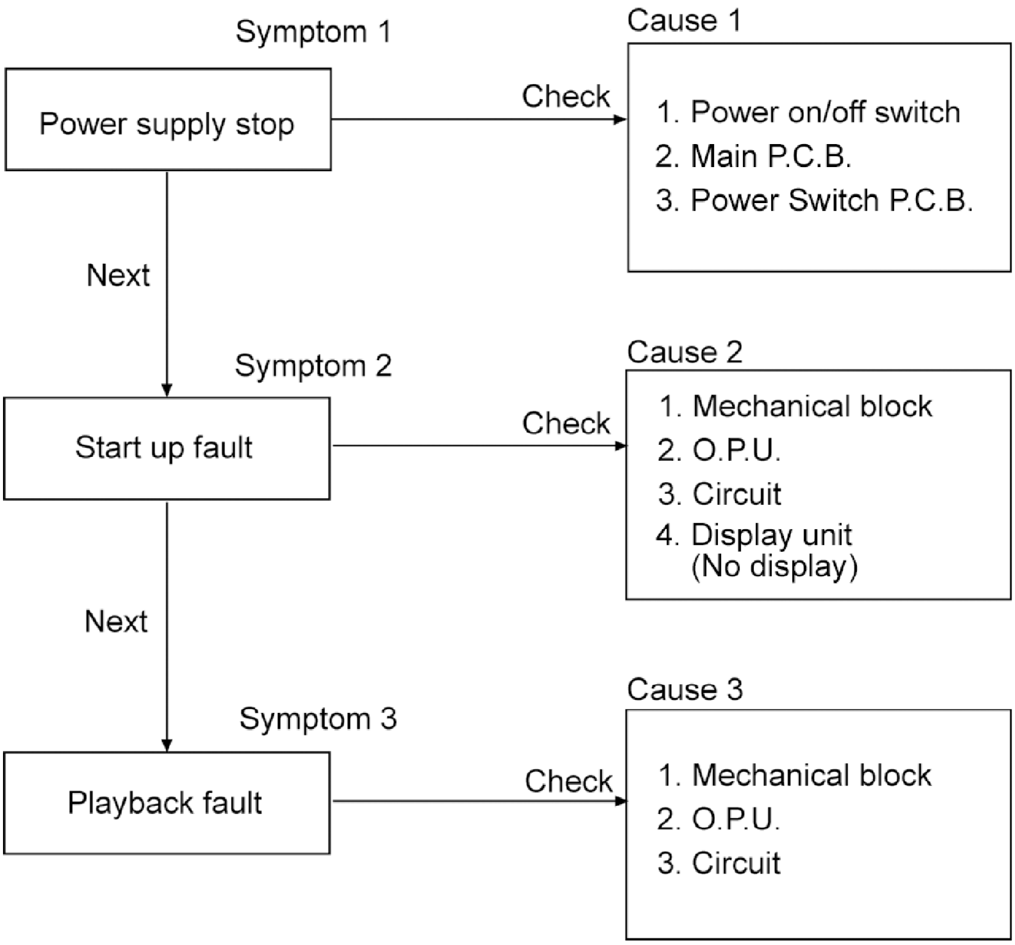
- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.
- Play list: A list in which one or more digital contents are arranged in order
- Group: Sub-divided group of a play list.
- Digital Contents: Audio, still picture, and animation data.

17. Procedure for repairing the set


Start
Check the symptom
Distinguish the trouble cause
Distinguish the following block
1. Optical pick up unit
2. Mechanical parts
3. Circuit (P.C.B.)
*Note: Refer to section 12.4 & 12.5 for error code.
Diagnosis
Repair
End

17.1. Distinguish the trouble cause

- Check flow


Symptom 1
Power supply stop
Check
Cause 1
1. Power on/off switch
2. Main P.C.B.
3. Power Switch P.C.B.
Next
Symptom 2
Start up fault
Check
Cause 2
1. Mechanical block
2. O.P.U.
3. Circuit
4. Display unit (No display)
Next
Symptom 3
Playback fault
Check
Cause 3
1. Mechanical block
2. O.P.U.
3. Circuit

How to distinguish the trouble

1. **View mechanical part if visual damage occurred.**
   Confirm the movement of mechanical parts assembly (tray ass'y, loading mechanism ass'y, etc.).
2. **Diagnose if Optical Pickup Unit is faulty (refer to diagnosis of Optical Pickup Unit).**
3. **If mechanism and OPU are OK, it is P.C.B.**

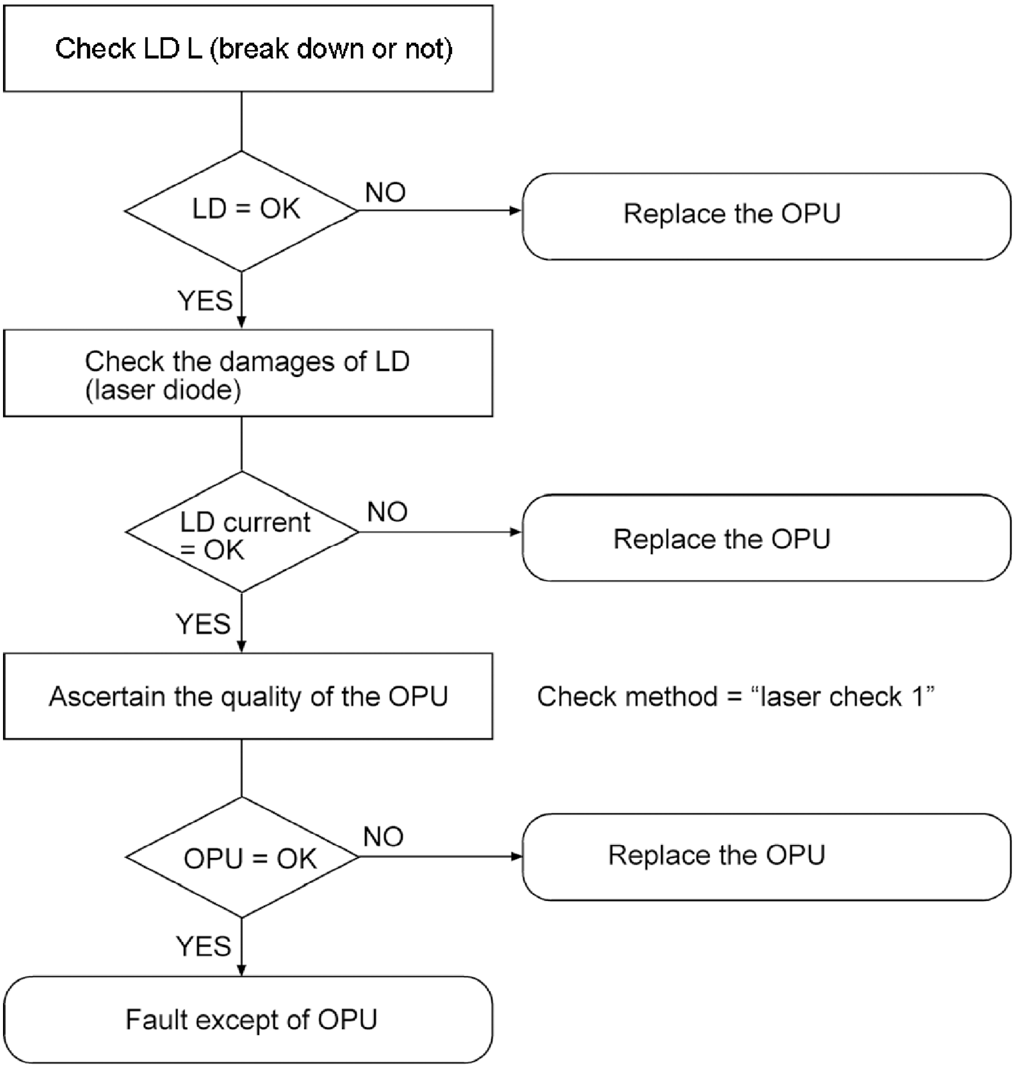
Cause 1	Possible fault
1. Power ON/OFF switch	**Power switch (S912), System cable (JK300)**
2. Main P.C.B.	**JK300, IC3, IC4, D756**

Cause 2	Possible fault
1. Mechanical block	**Tray and loading mechanical block, traverse unit**
2. O.P.U.	**Refer to the diagnosis of OPU**
3. Circuit	**LD drive, servo (Traverse, Focus, Tracking)** **Disc sensor** **Signal processing (FORE, SODC, DV1 etc.)**

Cause 3	Possible fault
1. Mechanical block	**Traverse block (Tilt adjustment)**
2. O.P.U.	**Refer to the diagnosis of OPU**
3. Circuit	**Servo (Focus, tracking)** **Signal processing (FORE, SODC, DV1 etc.)**

17.2. Diagnosis of Optical Pick-up Unit

Diagnosis Method
Diagnose the OPU by the following procedure


Check LD L (break down or not)
LD = OK
NO
Replace the OPU
YES
Check the damages of LD (laser diode)
LD current = OK
NO
Replace the OPU
YES
Ascertain the quality of the OPU
Check method = “laser check 1”
OPU = OK
NO
Replace the OPU
YES
Fault except of OPU

Note : When LD does not emit light after replacing the OPU, check the LD drive circuit in the module P.C.B.

How to distinguish Laser destruction/damage
Confirmation 1
Remove cover of mechanism block so that you will see the lens of optical pickup.
Confirm emission of laser at the moment when power switch is turned on.
If there is no laser emission, laser diode is faulty.
Confirmation 2
While holding “Pause” and “Open/Close” button, press “Display” button on the remote controller. Unit display laser current on FL.
From the reading of display, you can judge if laser diode is damaged or not.
Reading on the right side should be less than 70. If reading is more than 70, laser is damaged.

How to confirm if Optical Pickup is OK
Confirmation 1

1. **Confirmation of jitter value with test disc. (Refer below for how to check jitter)**
2. **Lens cleaning.**
3. **Reconfirm jitter value.**
4. **Perform tile adjustment. (Refer to tilt adjustment)**
5. **Reconfirm jitter value. (To confirm jitter value, while pressing "Pause" and "Open/Close" button, press numeric "5" on remote controller.)**
   Unit display jitter value on FL.

Confirmation 2
If servo is very unstable due to optical error and you cannot confirm jitter value, clean the lens and check appearance of pick up unit (cutting coil of actuator, etc), then check circuitry.

18. Disassembly and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

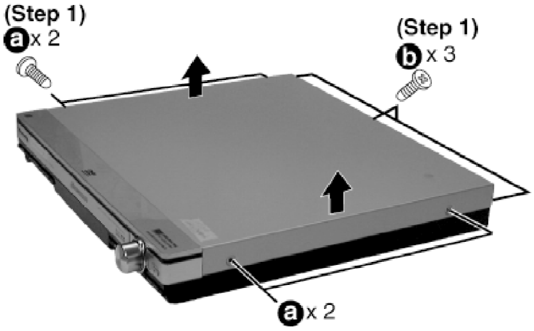
- **Disassembly the Top Cabinet**
- **Disassembly the Front Panel**
- **Disassembly the Tray Assembly**
- **Removal of the Tray Base Guide (L) and Tray Base Guide (R)**
- **Removal of the Rotary Tray**
- **Removal of the Open Lock Gear**
- **Removal of the Close Lock Gear**

- **Removal of the Tray Motor P.C.B.and Sensor P.C.B.**
- **Removal of the CD Traverse Unit**
- **Removal of the Pulley Gear**
- **Removal of the Loading Motor P.C.B.**
- **Removal of the Drive Gear (A) & (B)**
- **Disassembly the Fixed Plate, Magnet and Clamper**
- **Removal of the Cam Gear & Support Piece**
- **Removal of the Slide Plate (L) & (R) and Changer Lever**
- **Assembly of Tray Base**

18.1. Disassembling the Top Cabinet

Step 1 Remove 7 screws.

Step 2 Remove the top cabinet in the direction of arrow.

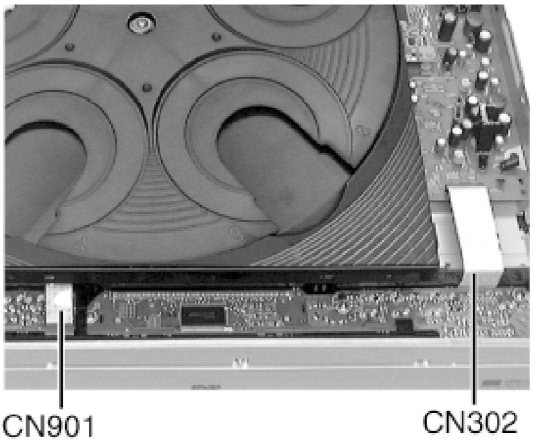


18.2. Disassembling the Front Panel

- Follow the (Step 1) - (Step 2) of Item 18.1.

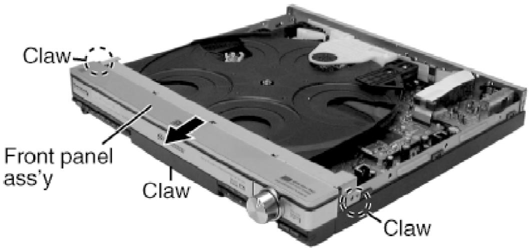
Step 1 Pull out the FFC from connectors (CN6004 & CN6001).

Step 2 Remove 1 screw.

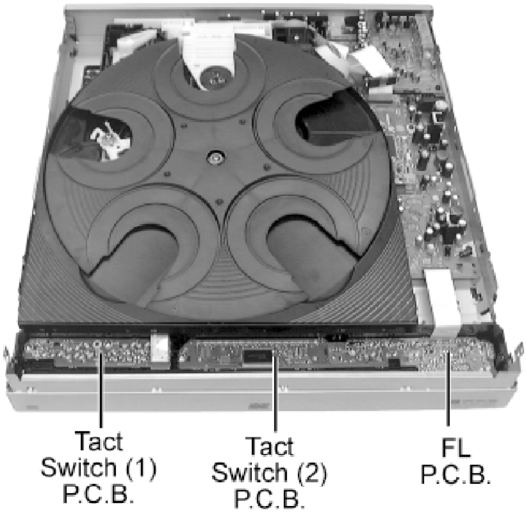


Step 3 Pull the front panel ass'y in both direction of arrow to unlock the claws of the chassis ass'y.

Step 4 Remove the front panel ass'y in the direction of arrow.


Claw
Front panel ass'y
Claw
Claw

- Checking of Tact Switch (1) P.C.B., Tact Switch (2) P.C.B. and FL P.C.B.

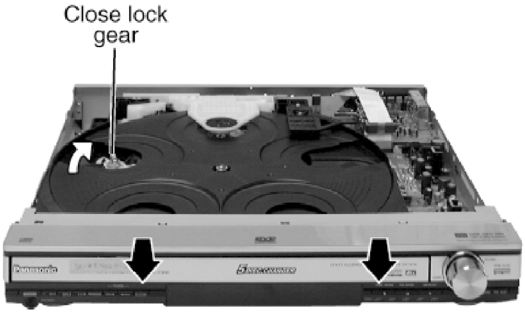

Tact Switch (1) P.C.B.
Tact Switch (2) P.C.B.
FL P.C.B.

18.3. Disassembling the Tray Assembly

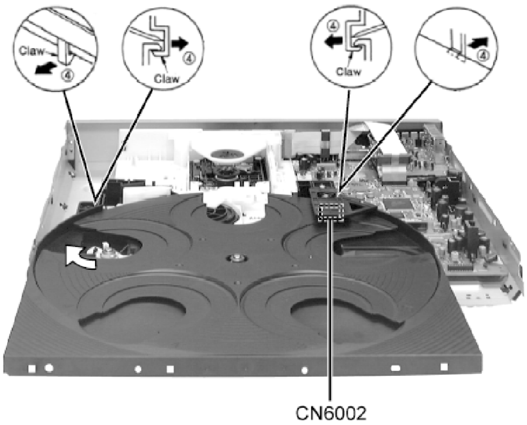
- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

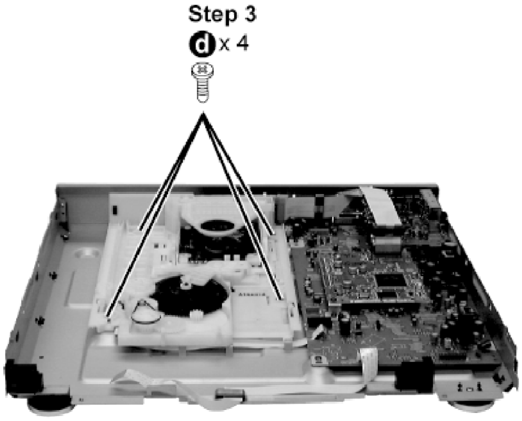
Step 1 Keep the close lock gear pressed in clockwise, move the tray assembly in the direction of the arrow.


Close lock gear

Step 2 Hold close lock gear, push and release the 4 claws in the direction of arrow, and then remove the tray assembly.

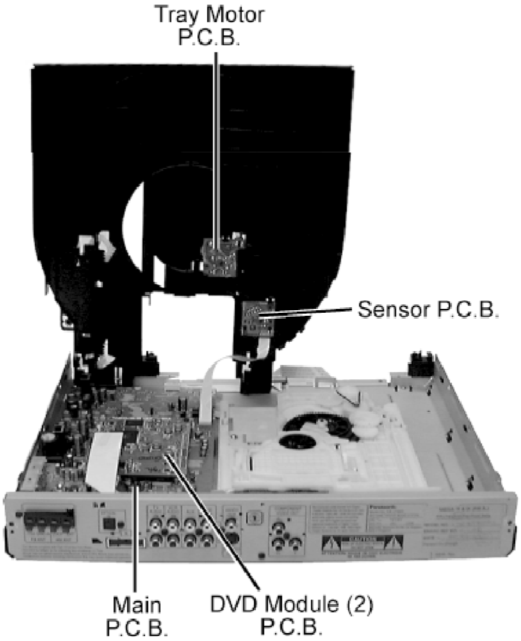

Claw
④
④
Claw
④
Claw
④
CN6002

Step 3 Pull out FFC CN6002.



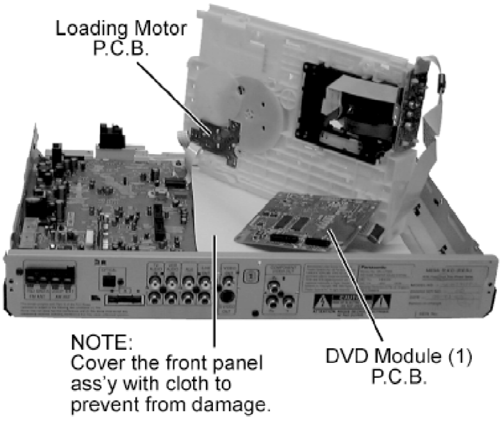
Step 4 Remove 4 screws.

- Checking of Main P.C.B., Tray Motor, DVD Module (2) P.C.B. and Sensor P.C.B.


Tray Motor P.C.B.
Sensor P.C.B.
Main P.C.B.
DVD Module (2) P.C.B.

- Checking of Loading Motor P.C.B. and DVD Module (1) P.C.B.

Step 5 Upset base assembly in vertical position.

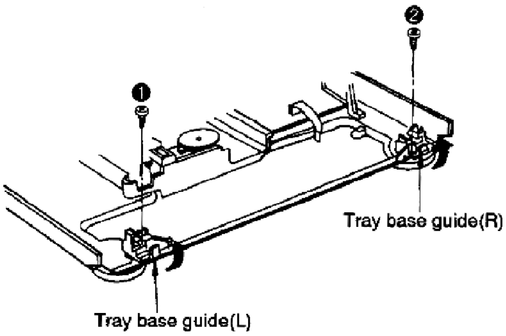

Loading Motor P.C.B.
NOTE:
Cover the front panel ass'y with cloth to prevent from damage.
DVD Module (1) P.C.B.

18.4. Removal of the Tray Base Guide (L) and Tray Base Guide (R)

- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.


❷
❶
Tray base guide(R)
Tray base guide(L)

Step 1 Remove the 2 screws.

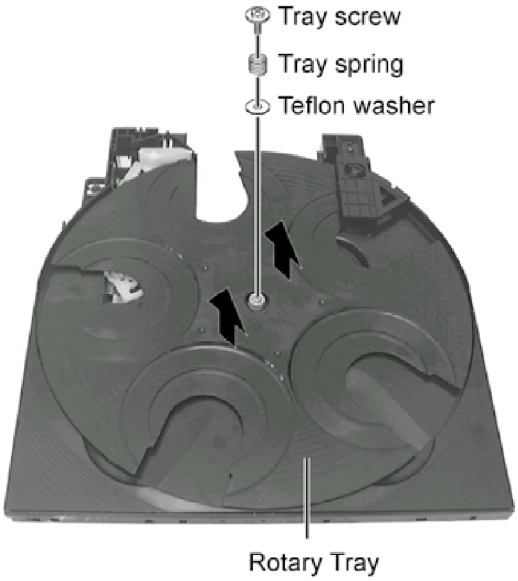
Step 2 Remove the tray base guide (L) and tray guide (R) in the direction of arrow.

18.5. Removal of the Rotary Tray

- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

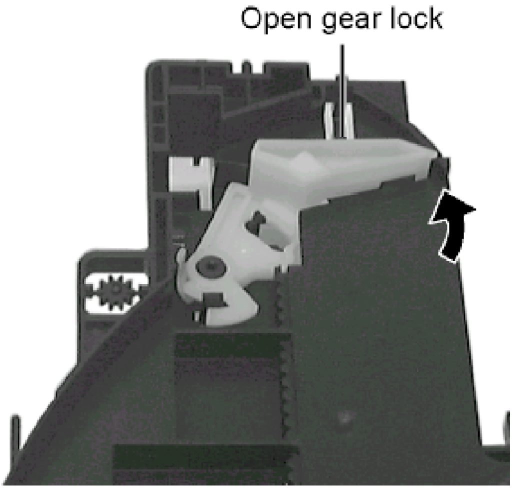
- Follow the (Step 1) - (Step 5) of Item 18.3.


Tray screw
Tray spring
Teflon washer
Rotary Tray

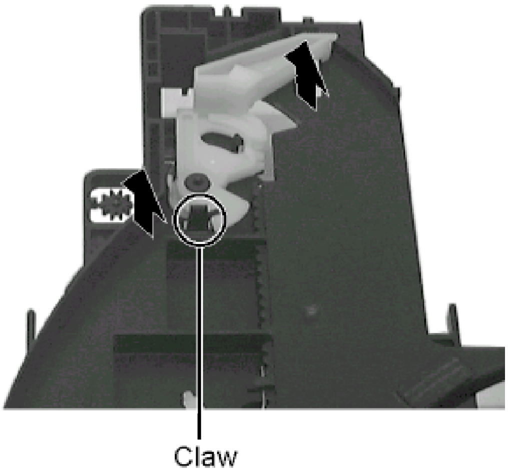
Step 1 Remove tray screw, tray spring and teflon washer.
Step 2 Remove rotary tray.

18.6. Removal of the Open Lock Gear

- Follow the (Step 1) - (Step 2) of Item 18.1.
- Follow the (Step 1) - (Step 4) of Item 18.2.
- Follow the (Step 1) - (Step 5) of Item 18.3.
- Follow the (Step 1) - (Step 2) of Item 18.5.


Open gear lock

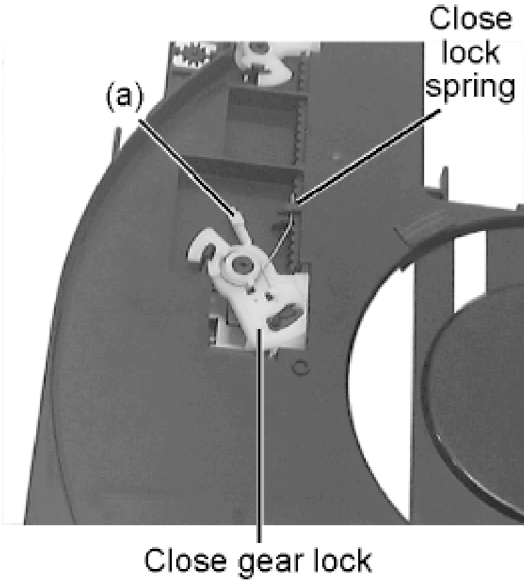
Step 1 Rotate open lock gear in the direction of arrow. (Anti-clockwise)



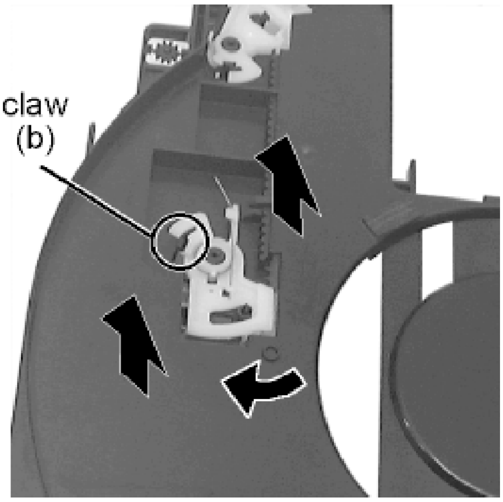
Step 2 Release claw of open lock gear, remove open lock gear in the direction of arrow .

18.7. Removal of the Close Lock Gear

- Follow the (Step 1) - (Step 2) of Item 18.1.
- Follow the (Step 1) - (Step 4) of Item 18.2.
- Follow the (Step 1) - (Step 5) of Item 18.3.
- Follow the (Step 1) - (Step 2) of Item 18.5.


Close lock spring
(a)
Close gear lock

Step 1 Hook close lock spring to claw (a).



Step 2 Rotate close lock gear to direction of arrow, press claw (b) and pull out close lock gear.

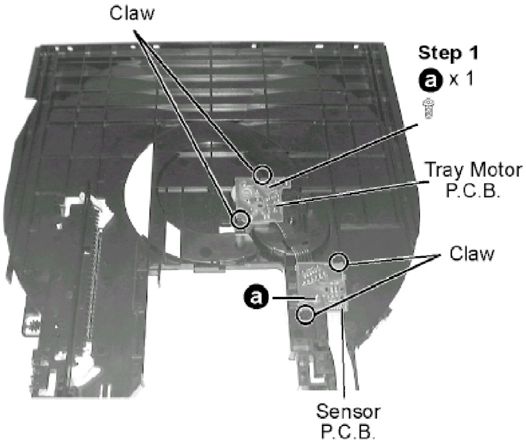
18.8. Removal of the Tray Motor P.C.B. and Sensor P.C.B.

- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Remove 2 screws.



Step 2 Release 4 claws at Tray Motor P.C.B. and Sensor P.C.B..

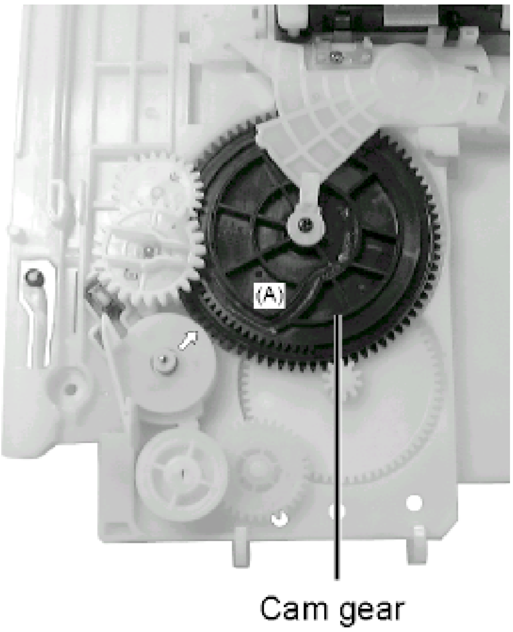
18.9. Removal of the CD Traverse Unit

- Follow the (Step 1) - (Step 2) of Item 18.1.

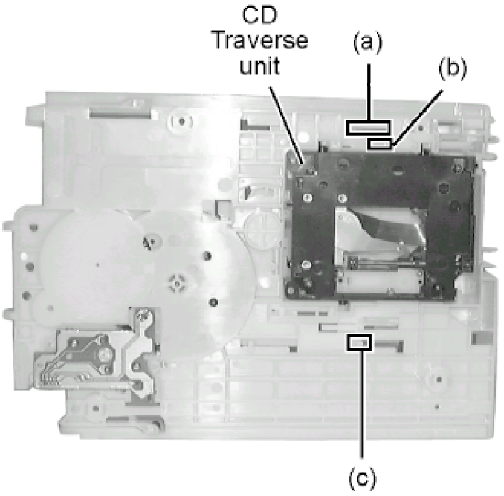
- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Rotate cam gear anti-clockwise. (Align at position (B) as marking on gear with arrow)



Step 2 Flip the base mech unit in vertical position.



Step 3 Press upward (a), push backward (b) and press to left (c) to release CD traverse unit.

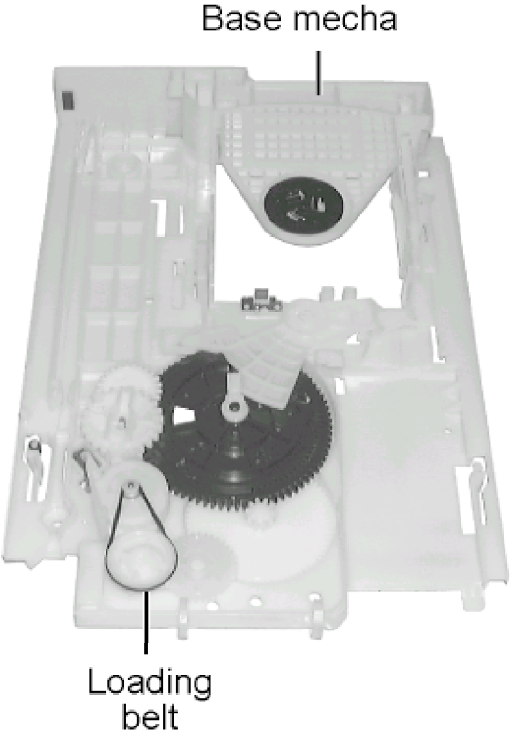
18.10. Removal of the Pulley Gear

- Follow the (Step 1) - (Step 2) of Item 18.1.

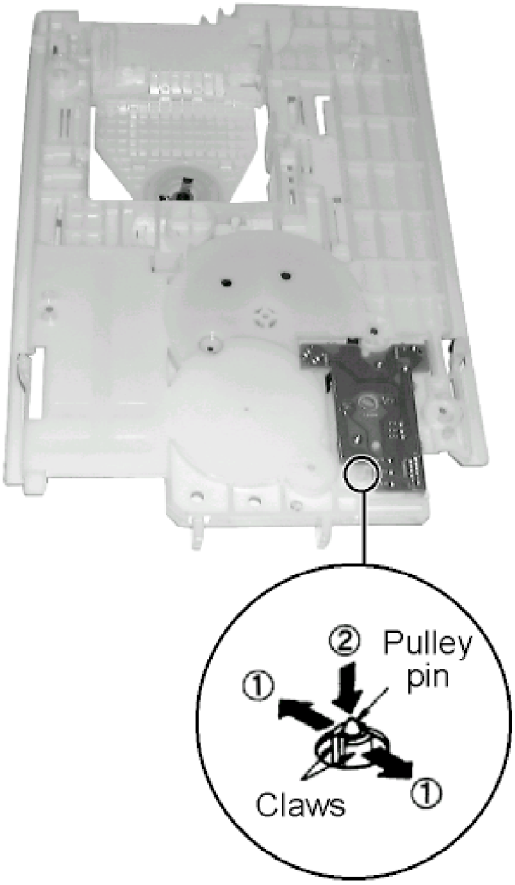
- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Remove of the loading belt.


Base mecha
Loading belt

Step 2 Flip the base mecha.


② Pulley pin
①
Claws
①

Step 3 Release the 2 claws in the direction of arrow (1), and then push the pulley pin in the direction of arrow (2).

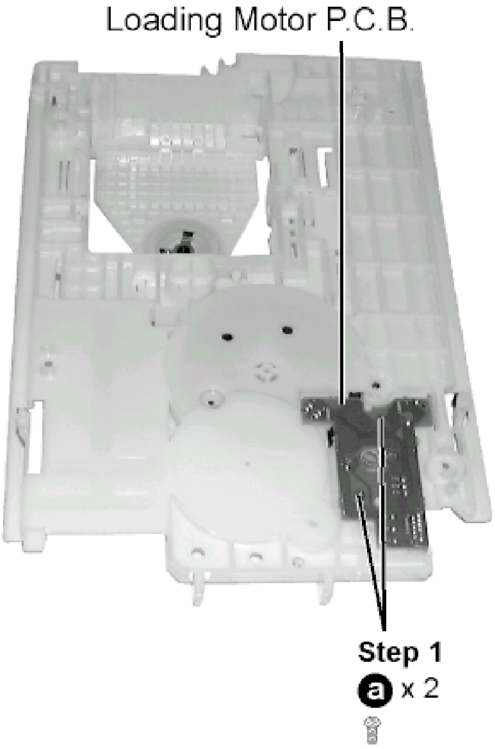
18.11. Removal of the Loading Motor P.C.B.

- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Remove 2 screws.



Step 2 Remove Loading Motor P.C.B.

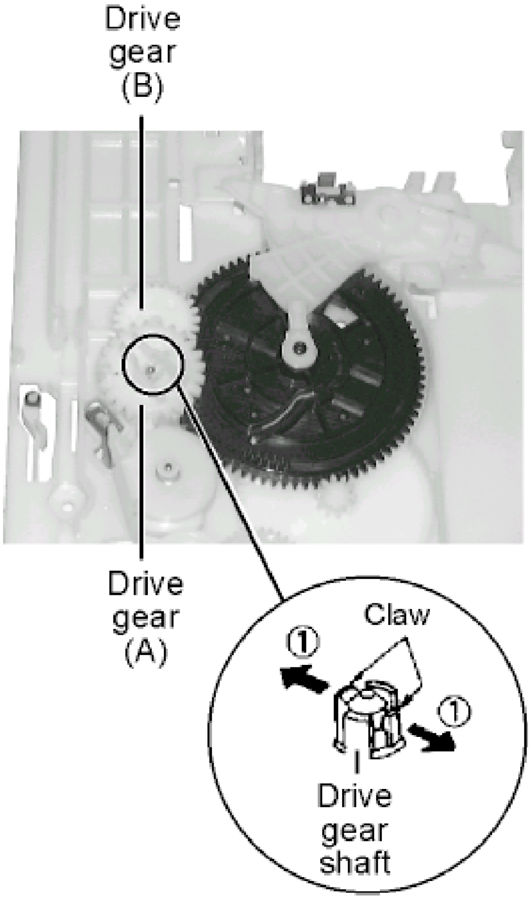
18.12. Removal of the Drive Gear (A) & (B)

- Follow the (Step 1) - (Step 2) of Item 18.1.

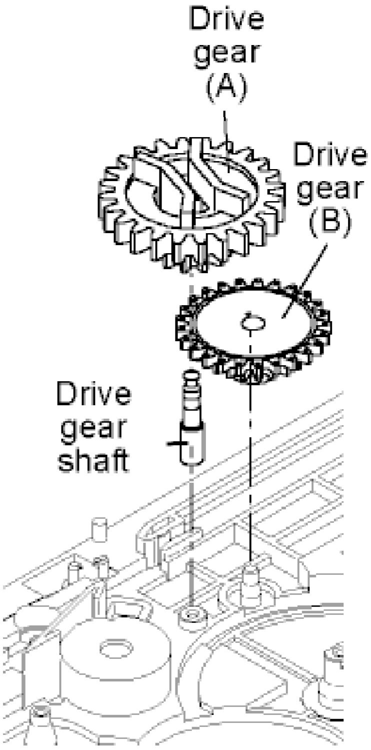
- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Release the claw in the direction of arrow (1), and then push drive gear shaft up.


Drive gear (B)
Drive gear (A)
Claw
①
①
Drive gear shaft

Step 2 Remove Drive Gear (A) and Drive Gear (B).


Drive gear (A)
Drive gear (B)
Drive gear shaft

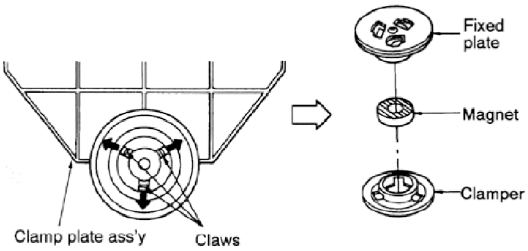
18.13. Disassembling the Fixed Plate, Magnet and Clamper

- Follow the (Step 1) - (Step 2) of Item 18.1.

- Follow the (Step 1) - (Step 4) of Item 18.2.

- Follow the (Step 1) - (Step 5) of Item 18.3.

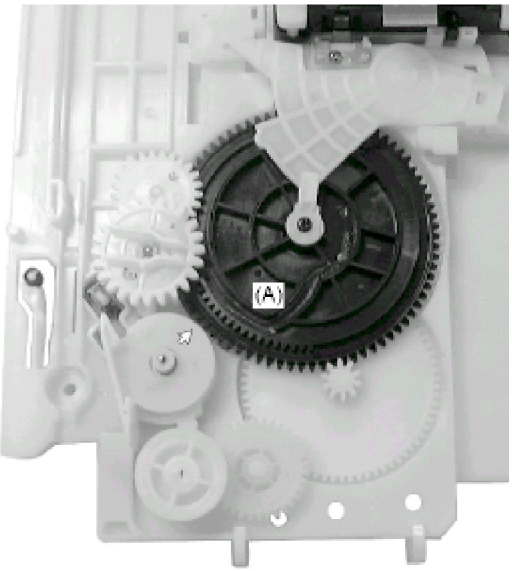
Step 1 Release 3 claws in the direction of arrow.


Fixed plate
Magnet
Clamper
Clamp plate ass'y
Claws

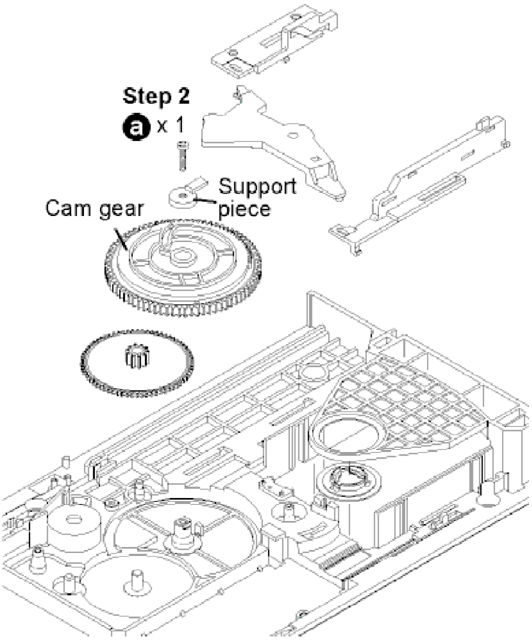
18.14. Removal of the Cam Gear & Support Piece

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Rotate (A) in cam gear anti-clockwise.



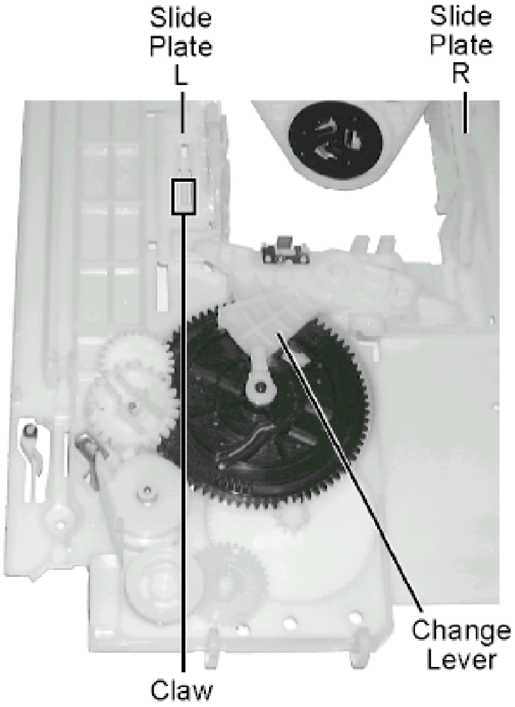
Step 2 Remove 1 screw and support piece.


Step 2
a x 1
Support piece
Cam gear

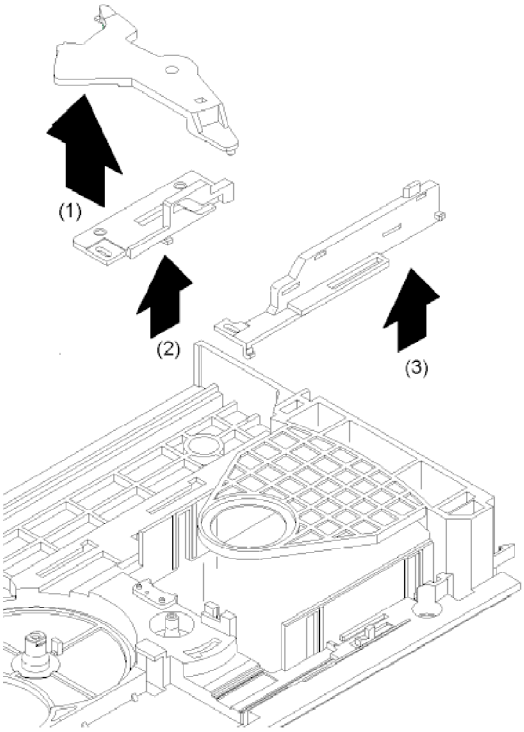
18.15. Removal of the Slide Plate (L) & (R) and Change Lever

- Follow the (Step 1) - (Step 5) of Item 18.3.

Step 1 Press the claw and push the Slide Plate (L) up.

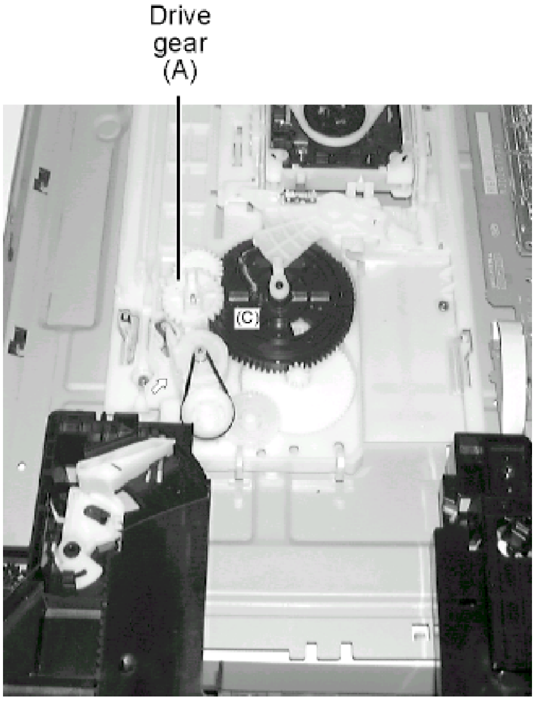

Slide Plate L
Slide Plate R
Change Lever
Claw

Step 2 Remove slide plate (L) & (R) and change lever as arrow shown.

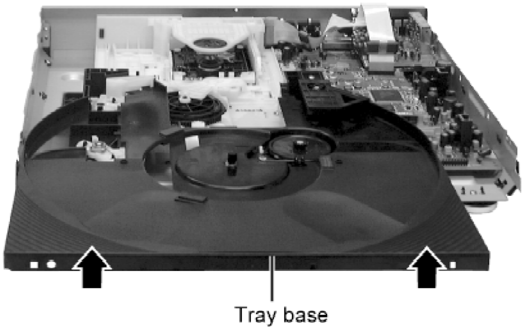


18.16. Assembly of Tray Base

Step 1 Rotate cam gear anti-clockwise. Align at position (C) as marking on gear with arrow.



Step 2 Make sure drive gear (A) at vertical position.



Step 3 Push tray base to the direction of arrow shown.

19. Adjustment Procedure

19.1. Required Tools and Equipment

19.1.1. Usage Equipment

Purpose of Use	Tools/Equipment	Model/Product Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hexagonal wrench`	Available on the market (2mm)
Others	Screw lock	RZZ0L01
	Grease	RFKXGAK152, RFKXPG641
Checking	CD test disc	PVCD-K06 and any commercially available disc
	VCD test disc	
	Recovery disc	RFKZD03R004

19.1.2. Necessity of Adjustment

19.1.2.1. Necessity of Optical Adjustment

- Before starting optical system adjustment, be sure to wear proper protection gear against static electricity.
- Optical adjustment (optical pickup tilt adjustment) is required after following parts are replaced:
  1. Optical pickup
  2. Spindle motor assembly
  3. Optical pickup peripherals such as a rail, etc.

Note:
Optical adjustment is not necessary after replacement of other parts inside traverse, however, may require when picture deterioration is detected. Optical adjustment cannot be applied to the inside of optical pickup. When a traverse unit is replaced, the adjustment is not necessary.

19.1.3. Storing and Handling Test Discs

Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

- **Do not leave the discs uncovered on the work desk or other places after use.**
- **Handle the discs carefully to prevent scratches. Put each disc in its case and place it in the standing position. Store the discs in a cool place and avoid direct sunlight or air conditioner.**
- **Accurate adjustment cannot be expected with a disc warped against a flat surface. Obtain a new test disc for optical adjustment.**
- **If a warped disc is used, adjustment would result incorrectly, and other discs could not be used.**

19.1.4. Optical Adjustment (Optical Pickup Tilt Adjustment)

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw / Tilt adjustment screw	T1 (inner track) replay / T43 (outer track) replay	DVDT-S15 or DVD
Measuring equipment		**Adjustment value**	
None (LCD display of the player is used.)		Adjust that jitter value becomes minimum.	

19.1.4.1. Adjustment Procedure

1. **While the player is stopped and no disc is inserted, select the DVD function. Press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.**
2. **Check that “J_xxx_yyy_zz” is appearing on the display.**

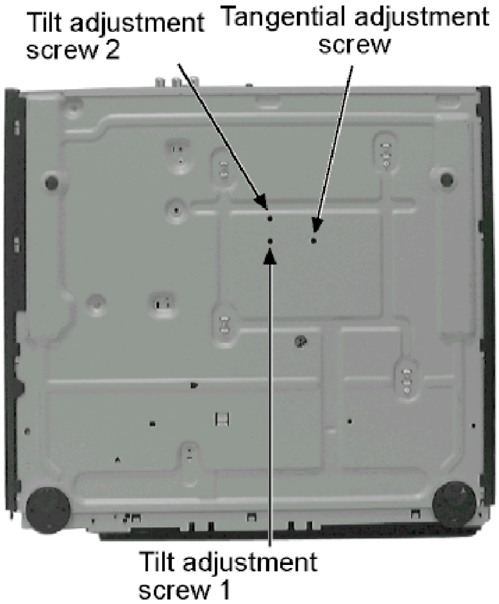
For your information:
The values, “yyy” and “zz” are not associated to jitter value. / “yyy” indicates the frequency of error occurrence. / “zz” indicates the focus drive value.

Note:
Jitter value appears on the display.

3. **Replay T01 (inner track) of the test disc.**
4. **Adjust till the jitter value becomes minimum, using a tangential adjustment screw. <Fig. 19-1>**

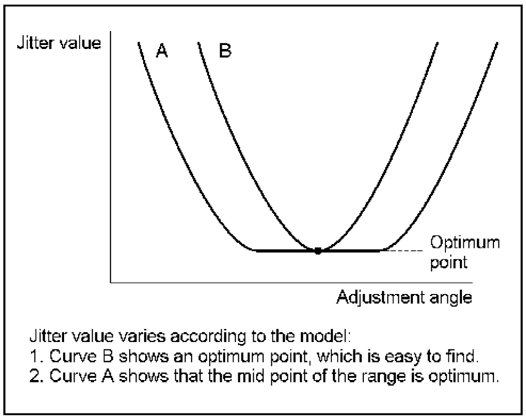
5. Replay T43 (outer track) of the test disc.
6. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 1. <Fig. 19-1>
7. Replay T43 (outer track) of the test disc.
8. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 2.<Fig. 19-1>
9. Adjust till the jitter value becomes, using the tilt adjustment screws 1 and 2 alternatively.

Fig. 19-1


Tilt adjustment screw 2
Tangential adjustment screw
Tilt adjustment screw 1

19.1.4.2. Tips

1. Apply the tangential adjustment first and then the tilt adjustment.
2. Repeat the adjustment a couple of times to find the optimum point.
3. Complete with the tilt adjustment.



Jitter value varies according to the model:
1. Curve B shows an optimum point, which is easy to find.
2. Curve A shows that the mid point of the range is optimum.

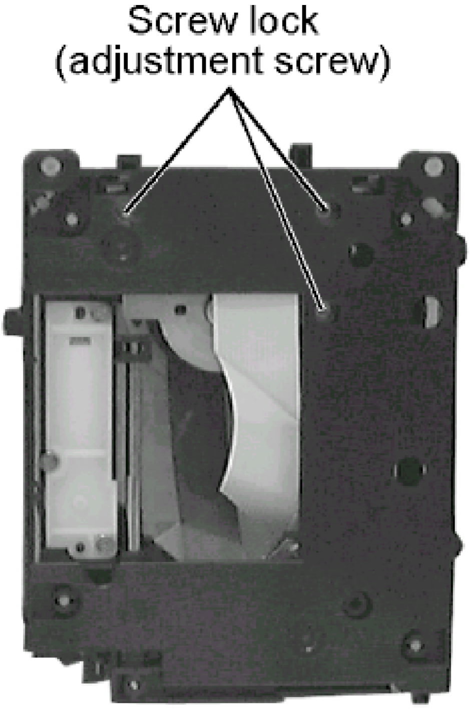
19.1.4.3. Check After Adjustment

Replay test discs or other commercial discs in order to confirm that no picture deterioration or sound skipping is detected in the inner, middle, and outer tracks. After this, fasten each adjustment screw securely using a screw lock.

19.1.4.4. Procedure for Screw Lock

1. **After adjustment, remove the top cover, clamper base, disc tray and then traverse unit.**
2. **Place the traverse unit upside down, and fasten the adjustment screws with a screw lock. <Fig. 19.2>**
3. **After fastening the screws, assemble in order of the traverse unit, disc tray, clamper base, and then top cover.**

Fig. 19-2



19.2. Tuner Section

19.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig.1.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 1 from AM-SG.
4. Adjust Z102 so that the output frequency is maximized in Fig. 2.

Fig.1

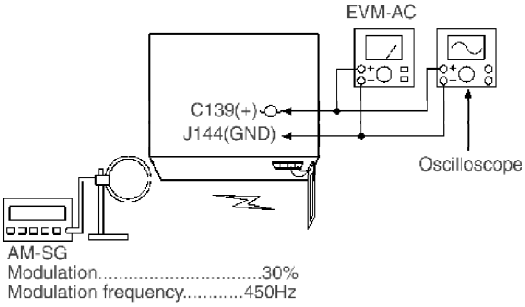
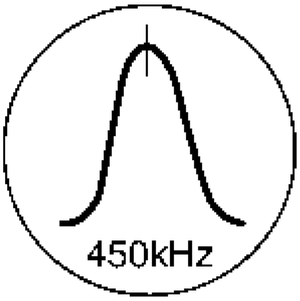

EVM-AC
C139(+)
J144(GND)
Oscilloscope
AM-SG
Modulation..............................30%
Modulation frequency...........450Hz

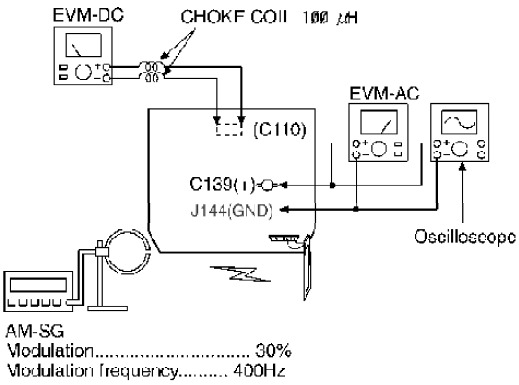
Fig.2



19.2.2. AM RF Adjustment

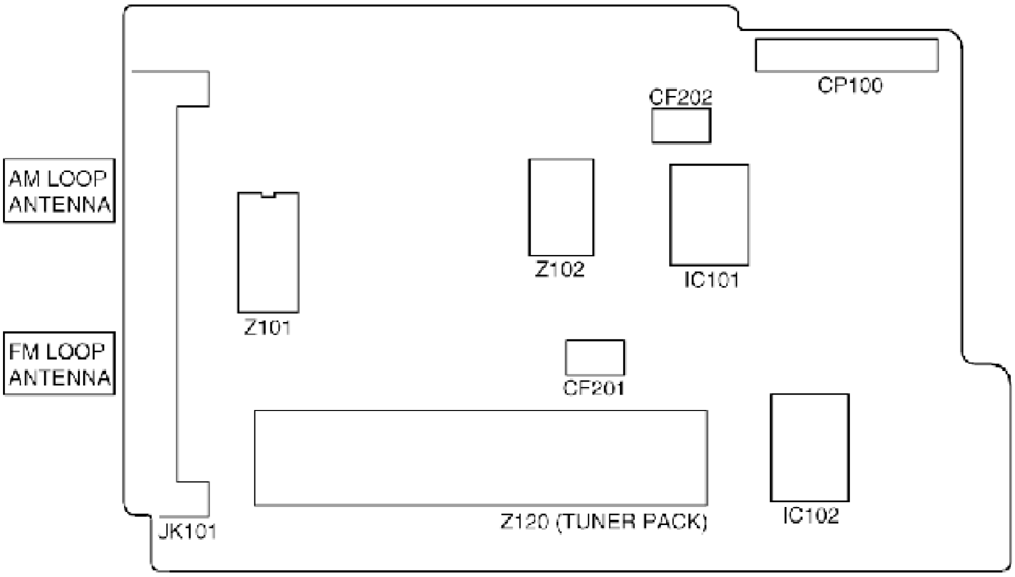
1. Connect the instrument as shown in Fig. 3.
2. Set the unit to AM mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust Z101 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.
9. Set AM-SG to 520kHz.
10. Receive 520kHz in the unit.
11. Adjust Z101 (OSC) so that the EVM-DC value is with 1.1±0.5V.

Fig.3


EVM-DC
CHOKE COIL 100 µH
EVM-AC
(C110)
C139(+)
J144(GND)
Oscilloscope
AM-SG
Modulation................................ 30%
Modulation frequency.......... 400Hz

19.3. Alignment Points

19.3.1. Adjustment Point


CP100
CF202
AM LOOP ANTENNA
Z102
IC101
Z101
FM LOOP ANTENNA
CF201
JK101
Z120 (TUNER PACK)
IC102

20. Block Diagram

21. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S900

: Ex Disc switch

S901

: Disc Skip switch

S902

: Disc Open/Close switch

S903
: Play switch

S904
: Pause switch

S905
: Stop switch

S906
: SEL switch

S907
: Tune Down switch

S908
: Tune Up switch

S909
: Progressive switch

S910
: CSM switch

S911
: Dig On switch

S912
: Power switch

S9001
: Loading switch

VR900
: Volume Jog

- **The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.**
- **Importance safety notice :**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound

(capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

22. Printed Circuit Board

23. Wiring Connection Diagram

24. Parts Location and Replacement Parts List

Notes:

- **Important safety notice:**
  Components identified by ⚠ ; mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.**
- **Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for**

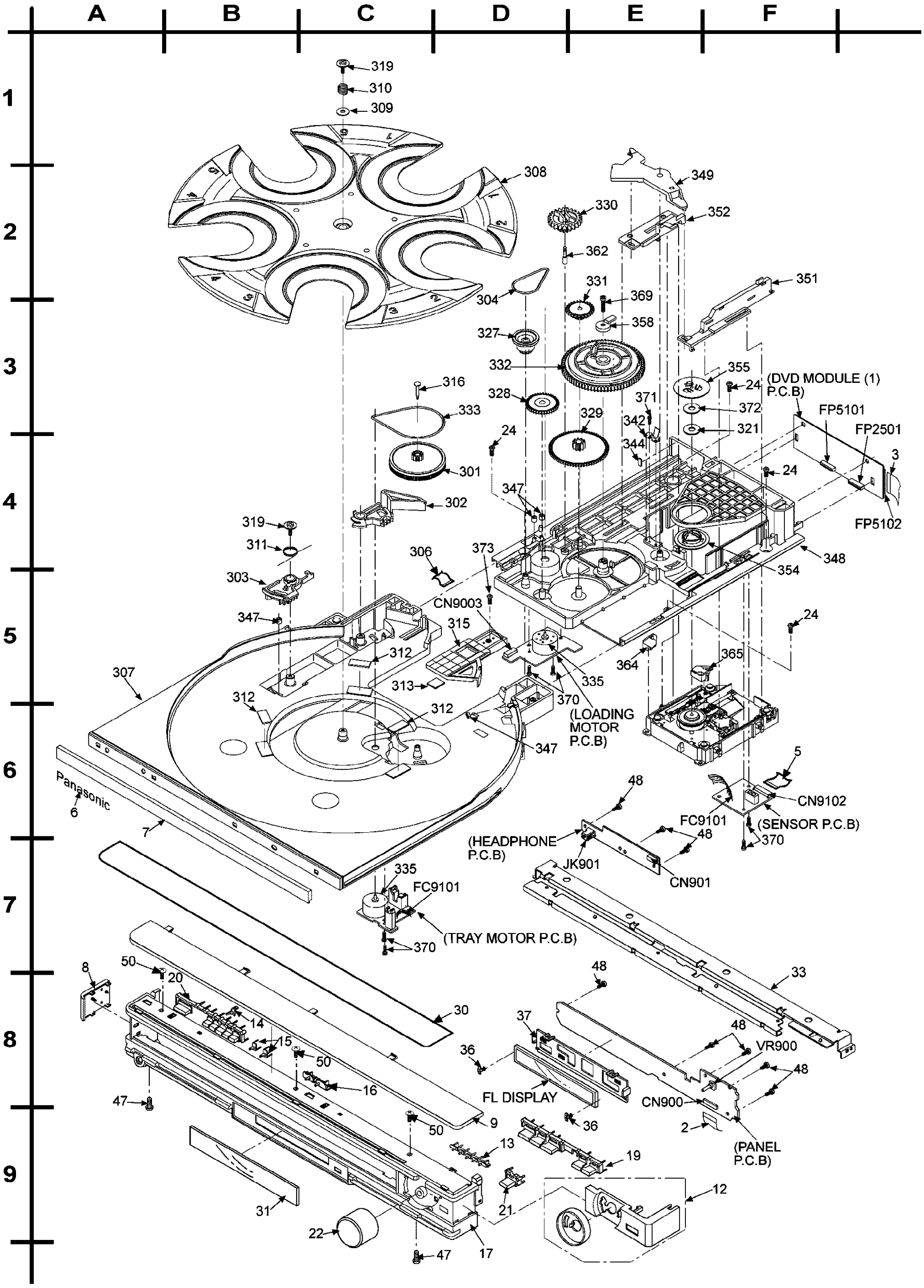
this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

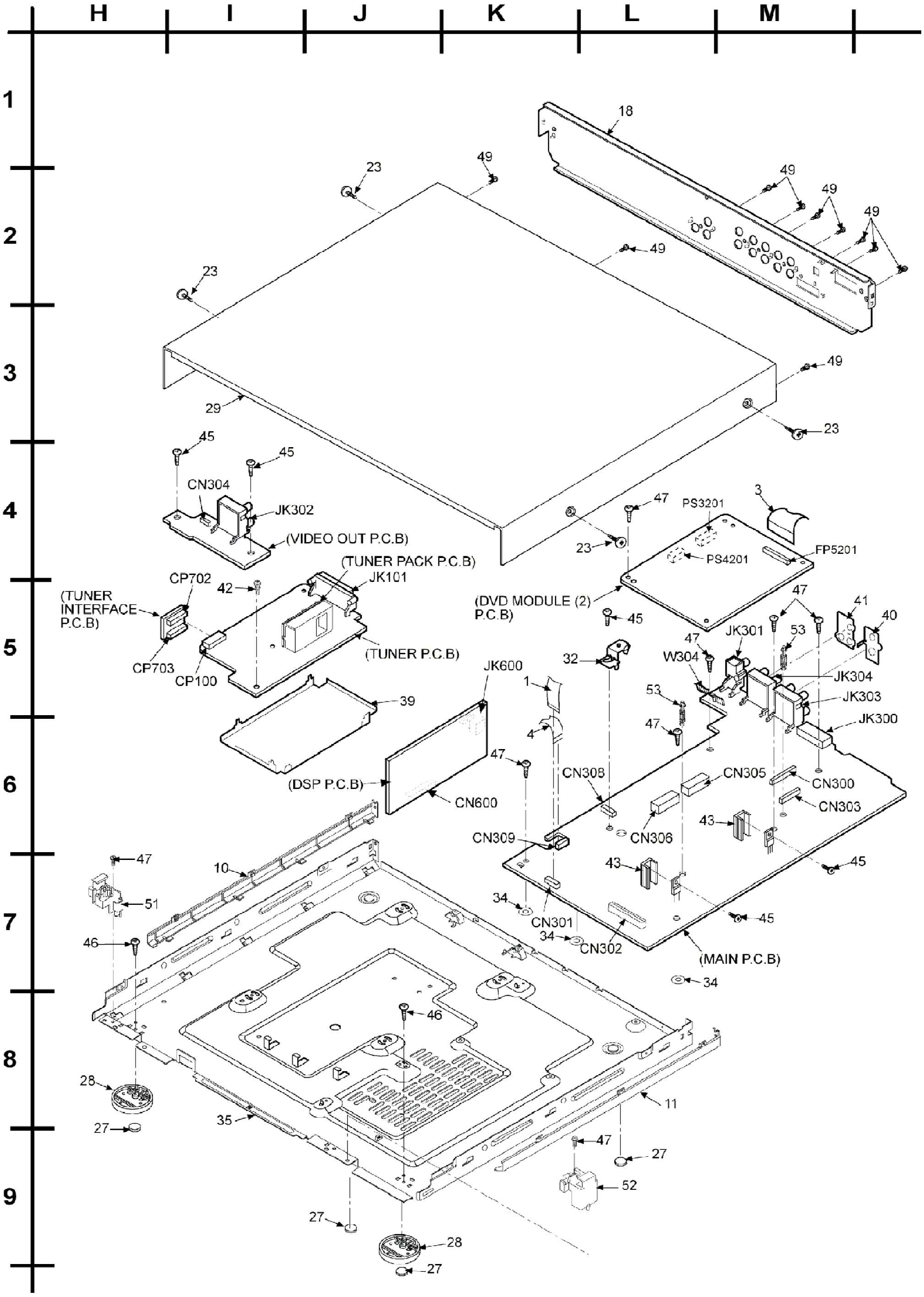
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **The “(SF)” mark denotes the standard part.**
- **Reference for O/I book languages are as follows:**

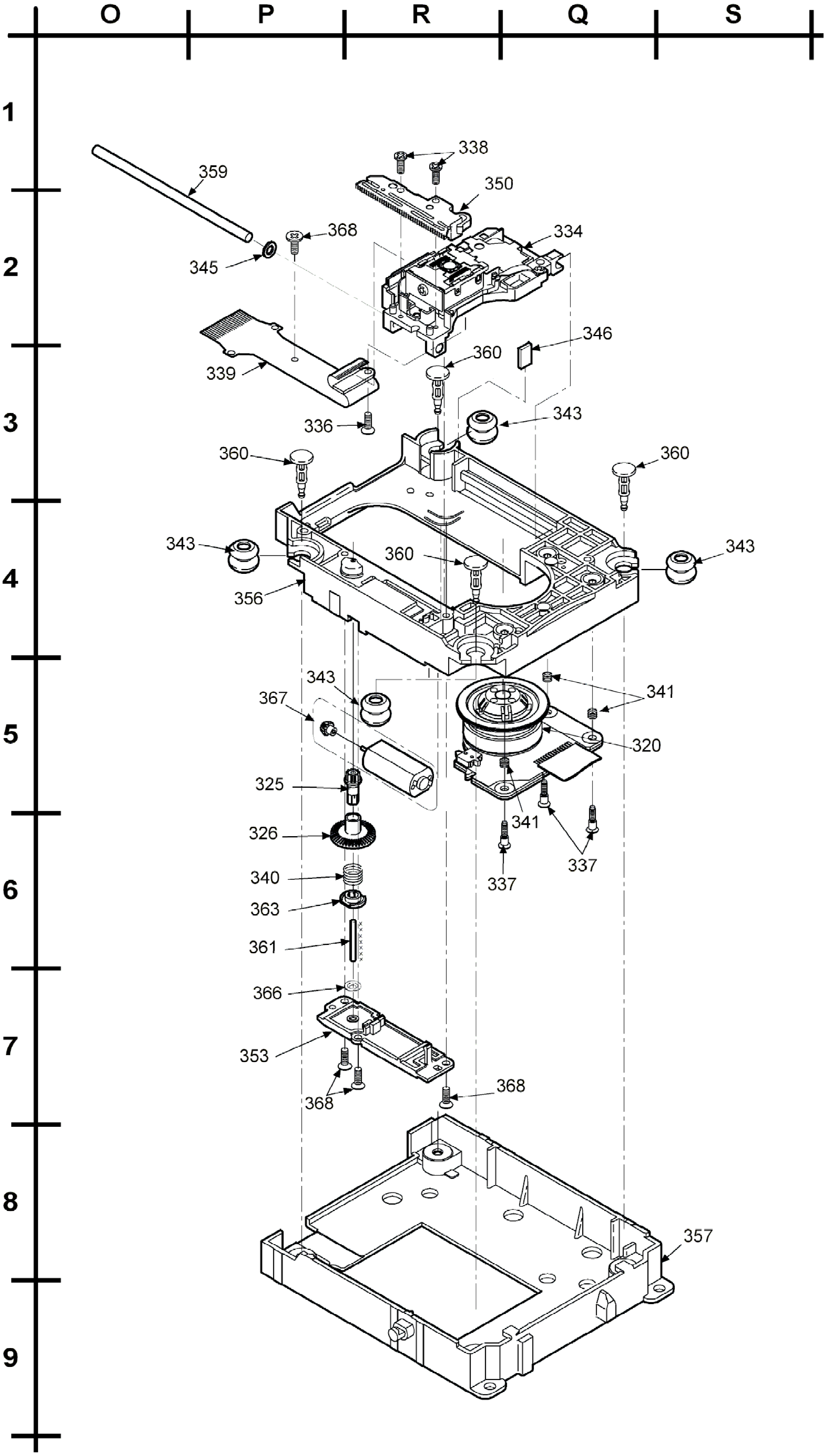
Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedis**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**

24.1. Loading Mechanism, Traverse and Cabinet Unit

24.1.1. Loading Mechanism and Cabinet Parts Location


A
B
C
D
E
F
(DVD MODULE (1) P.C.B)
FP5101
FP2501
FP5102
CN9003
(LOADING MOTOR P.C.B)
Panasonic
CN9102
FC9101
(SENSOR P.C.B)
(HEADPHONE P.C.B)
JK901
CN901
FC9101
(TRAY MOTOR P.C.B)
VR900
FL DISPLAY
CN900
(PANEL P.C.B)


H
I
J
K
L
M
CN304
JK302
(VIDEO OUT P.C.B)
(TUNER PACK P.C.B)
JK101
CP702
(TUNER INTERFACE P.C.B)
CP703
CP100
(TUNER P.C.B)
JK600
(DSP P.C.B)
CN600
PS3201
PS4201
FP5201
(DVD MODULE (2) P.C.B)
JK301
W304
JK304
JK303
JK300
CN308
CN305
CN300
CN303
CN309
CN306
CN301
CN302
(MAIN P.C.B)


O
P
R
Q
S

24.1.2. Traverse and Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0224-1	11P FFC (MAIN-HP)	[M]
2	REEX0225	22P FFC (MAIN-FL)	[M]
3	REEX0239	50 FFC (BE-DRIVE)	[M]
4	REEX0285	11P FFC (MECHA-MAIN)	[M]
5	REEX0249	19P FFC (MAIN-SCA)	[M]
6	RGBX0011-S	PANA BADGE	[M]
7	RGK1578C-S	TRAY ORNAMENT	[M]
8	RGK1582-S	SIDE ORNAMENT L	[M]
9	RGK1666-S	TOP ORNAMENT	[M]
10	RGKX0192-K	SIDE PLATE L	[M]
11	RGKX0193-K	SIDE PLATE R	[M]
12	RGKX0213-1S	VOL. KNOB ORN. UNIT	[M]
13	RGLX0066-Q	5 DISC LIGHTING CHIP	[M]
14	RGLX0067-Q	POWER LIGHT CHIP	[M]
15	RGLX0068-Q	BUTTON LIGHTING CHIP	[M]
16	RGLX0070-Q	VRS LIGHTING CHIP	[M]
17	RGPX0101E-K1	FRONT PANEL	[M]
18	RGRX0026D-B1	REAR PANEL	[M]
19	RGUX0518-K	OPERATION BUTTON	[M]
20	RGUX0519D-K	POWER BUTTON	[M]
21	RGUX0520-S	OPEN/CLOSE BUTTON	[M]
22	RGWX0077-S	VOLUME KNOB	[M]
23	RHD30007-S	SCREW	[M]
24	RHD30107	SCREW	[M]
27	RKA0145-K	CUSHION	[M]
28	RKAX0009-S	FOOT BASE ASS'Y	[M]
29	RKMX0090-S	TOP CABINET	[M]
30	RKW0702B-S	TOP PLATE	[M]
31	RKWX0200-Q	FL WINDOW	[M]
32	RMAX0057	BE ANGLE B	[M]
33	RMAX0060	PANEL ANGLE	[M]
34	RMFX0022	SPACER	[M]
35	RMKX0074	BOTTOM CHASSIS	[M]
36	RMN0195-1	FL-SUPPORT	[M]
37	RMNX0096-1	FL HOLDER	[M]
39	RSCX0084	TUNER SHIELD PLATE	[M]
40	RSCX0086	V JACK SHIELD PLATE	[M]
41	RSCX0087	RGB SHIELD PLATE	[M]
42	SHR415	PLASTIC RIVET	[M]
43	TUC25628	HEAT SINK	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+6J	SCREW	[M]
47	XTB3+8JFZ	SCREW	[M]
48	XTBS26+10J	SCREW	[M]
49	XTBS3+8JFZ1	SCREW	[M]
50	XTS3+6FFZ	SCREW	[M]
51	RMN0730	TRAY GUIDE L	[M]
52	RMN0731	TRAY GUIDE R	[M]
53	RMR1440-X	PCB SUPPORT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RDG0567	PULSE GEAR	[M]
302	RDG0568	OPEN LOCK GEAR	[M]
303	RDG0569	CLOSE LOCK GEAR	[M]
304	RDV0073	TRAY BELT	[M]
306	REZ1484	11P FFC (TRAY-MAIN)	[M]
307	RGQ0358-K	TRAY BASE	[M]
308	RGQ0359-K	ROTARY TRAY	[M]
309	RHW81001-1	WASHER	[M]
310	RMB0365	TRAY SPRING	[M]
311	RME0384	CLOSE LOCK GEAR SPRI	[M]
312	RMF0182	TRAY FELT	[M]
313	RMF0324	BLOCK SHEET	[M]
315	RMM0256	BLOCK BASE	[M]
316	RMS0123-1	FIXED PIN B	[M]
319	XTWS3+10S	SCREW	[M]
320	BML3E4CRX	SPINDLE MOTOR	[M]
321	JSM0048	MAGNET	[M]
325	RDG0557	PINON SHAFT	[M]
326	RDG0558	BEVEL RING	[M]
327	RDG0562	PULLEY GEAR	[M]
328	RDG0563	RELAY GEAR A	[M]
329	RDG0564	RELAY GEAR B	[M]
330	RDG0565	DRIVE GEAR A	[M]
331	RDG0566	DRIVE GEAR B	[M]
332	RDG0570	CAM GEAR	[M]
333	RDV0072	LOADING BELT	[M]
334	RAF3023A-2S	4.17 OPU	[M]
335	REM0112	LOADING MOTOR ASS’Y	[M]
336	RHD14095	FPC SCREW	[M]
337	RHD17042	TILT ADJUST SCREW	[M]
338	RHD17046	RACK S	[M]
339	RJB2621A	RELAY FPC	[M]
340	RMB0713-1	THRUST SPRING	[M]
341	RMB0714	TILT SP	[M]
342	RMC0387	SUPPORT SPRING	[M]
343	RMG0598-A	FLOATING RUBBER	[M]
344	RMG0615-K	CUSHION SHEET	[M]
345	RMG0617-H	CUSHION RUBBER A	[M]
346	RMG0618-H	CUSHION RUBBER B	[M]
347	RMG0620-K	CUSHION RUBBER	[M]
348	RMK0555	MECHA BASE	[M]
349	RML0646	CHANGE LEVER	[M]
350	RMM0252	OPU DRIVE RACK	[M]
351	RMM0254	SLIDE PLATE R	[M]
352	RMM0255	SLIDE PLATE L	[M]
353	RMQ1112	MOTOR COVER	[M]
354	RMR1446-X	CLAMPER	[M]
355	RMR1447-X	MAGNET HOLDER	[M]
356	RMR1466-K	TRV BASE	[M]
357	RMR1467-K	MIDDLE CHASSIS	[M]
358	RMR1507-X	SUPPORT PIECE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
359	RMS0788	GUIDE SHAFT	[M]
360	RMS0789	FIXED PIN	[M]
361	RMS0798	GEAR SHAFT	[M]
362	RMS0802	DRIVE GEAR SHAFT	[M]
363	RMX0233	THRUST WASHER	[M]
364	RMX0241	TRAY SUPPORT R	[M]
365	RMX0242	TRAY SUPPORT L	[M]
366	RMX0247	WASHER	[M]
367	RXQ0946	TRV MOTOR SUB ASSY	[M]
368	VHD1224	ADJ SPRING HOLDER SC	[M]
369	XTN26+14JFZ	SUPPORT PIECE SCREW	[M]
370	XTN26+8G	ADDITIONAL SCREWS	[M]
371	XTV2+6G	PCB SCREW	[M]
372	XWG6FFY	WASHER	[M]
373	XTB3+10J	SCREW	[M]

24.2. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3451A-N	DVD MODULE (1) P.C.B.(SIDE: A)	[M](RTL)
	REP3451A-N	DVD MODULE (1) P.C.B.(SIDE:B)	[M](RTL)
	REPX0386B	DVD MODULE (2) P.C.B.(SIDE: B)	[M](RTL)
	REPX0386B	DVD MODULE (2) P.C.B.(SIDE:B)	[M](RTL)
	REPX0400B-1	MAIN P.C.B.	[M](RTL)
	REPX0400B-1	VIDEO OUT P.C.B.	[M](RTL)
	REPX0333D	HEADPHONE P.C.B.	[M](RTL)
	REPX0333D	SCART P.C.B.	[M](RTL)
	REPX0335A	DSP P.C.B.(SIDE:A)	[M](RTL)
	REPX0335A	DSP P.C.B.(SIDE:B)	[M](RTL)
	REPX0333D	PANEL P.C.B.	[M](RTL)
	REP3465A	LOADING MOTOR P.C.B.	[M](RTL)
	REP3466A	TRAY MOTOR P.C.B.	[M](RTL)
	REP3466A	SENSOR P.C.B.	[M](RTL)
	REPX0373B	TUNER P.C.B.	[M](RTL)
	REPX0400B-1	TUNER INTERFACE P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC2	C0CBADG00005	IC VOLTAGE REGULATOR	[M]
IC3	C0DBAMH00009	IC POWER SUPPLY	[M]
IC4	C0DBAMH00009	IC POWER SUPPLY	[M]
IC5	C0DBZHE00011	1C POWER SUPPLY	[M]
IC6	C0CBADG00005	IC VOLTAGE REGULATOR	[M]
IC7	C0CBADG00005	IC VOLTAGE REGULATOR	[M]
IC8	C0DBEZG00011	IC REGULATOR	[M]
IC50	C9ZB00000377	IC 6 CHANNEL VIDEO DRIVER	[M]
IC51	C0GAG0000007	IC MOTOR DRIVE	[M]
IC52	C0GAG0000007	IC MOTOR DRIVE	[M]
IC53	C1AB00001466	IC VIDEO BUFFER	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC301	C0JZAS000004	IC ANALOG SWITCH	[M]
IC302	KIA4558FEL	IC DUAL OP-AMP	[M]
IC303	KIA4558FEL	IC DUAL OP-AMP	[M]
IC304	C0JBAR000292	IC ANALOG MULTIPLEXER	[M]
IC305	C0ABCB000040	IC QUAD OP AMP	[M]
IC307	C1BB00000782	IC 6 CHANNEL VOLUME	[M]
IC308	C0AABB000055	IC AMP	[M]
IC309	C0ABCB000040	IC QUAD OP AMP	[M]
IC313	C0ABCB000040	IC QUAD OP AMP	[M]
IC600	TC9446F-033	IC DPL2	[M]
IC601	C0FBZK000007	IC AUDIO CODEC	[M]
IC602	C0ABCB000040	IC QUAD OP AMP	[M]
IC603	C0JBAS000008	IC ANALOG SW	[M]
IC604	C0CBCBE00003	IC POWER SUPPLY	[M]
IC605	KIA4558FEL	IC DUAL OP-AMP	[M]
IC701	C1BB00000389	IC BLT	[M]
IC800	C2CBJF000013	IC MICROPROCESSOR	[M]
IC802	C1BB00000715	IC RDS	[M]
IC900	C0HBB0000035	IC FL DRIVER	[M]
IC950	C0JBAR000292	IC ANALOG SW	[M]
IC951	BA7660FS-E2	IC VIDEO AMP	[M]
IC952	C1AB00001466	IC V. BUFFER	[M]
IC2501	C0GBF0000004	IC MOTOR DRIVE	[M]
IC2521	C0GBG0000033	IC MOTOR DRIVE	[M]
IC3001	MN2DS0002AP1	IC AV DECODER	[M]
IC3051	C3ABPG000068	IC 64 SDRAM	[M]
IC3061	C3ABPG000068	IC 64 SDRAM	[M]
IC4211	C0FBBK000036	IC AUDIO DAC	[M]
IC6201	C0EBE0000070	IC RESET	[M]
IC6251	C0CBCBE00003	IC POWER SUPPLY	[M]
IC6261	C0JBAA000001	IC INVERTER	[M]
IC6262	C0JBAA000001	IC INVERTER	[M]
IC6301	RFKFMH70T320	IC 16M FLASH ROM	[SPC]
IC6311	C0JBAZ001251	IC LATCH	[M]
IC6312	C0JBAZ001251	IC LATCH	[M]
IC6561	C1DB00000980	IC CLOCK GENERATOR	[M]
		TRANSISTORS	
Q1	KRA110STA	TRANSISTOR	[M]
Q3	KTA1046	TRANSISTOR	[M]
Q4	KTC3875GRTA	TRANSISTOR	[M]
Q5	B1ADCF000001	TRANSISTOR	[M]
Q6	KRA102STA	TRANSISTOR	[M]
Q15	KRC107STA	TRANSISTOR	[M]
Q16	KRC107STA	TRANSISTOR	[M]
Q17	KRC107STA	TRANSISTOR	[M]
Q18	KRC107STA	TRANSISTOR	[M]
Q19	KRC107STA	TRANSISTOR	[M]
Q51	KTC3205YTA	TRANSISTOR	[M]
Q52	KRC107STA	TRANSISTOR	[M]
Q53	KRC102STA	TRANSISTOR	[M]
Q54	KRC102STA	TRANSISTOR	[M]
Q55	KRC102STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q102	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M]
Q110	2SC3311ARA	TRANSISTOR	[M]
Q300	B1GFGCAA0001	TRANSISTOR	[M]
Q301	KRA110STA	TRANSISTOR	[M]
Q302	KRA110STA	TRANSISTOR	[M]
Q304	KRA110STA	TRANSISTOR	[M]
Q305	KRA110STA	TRANSISTOR	[M]
Q307	B1GFGCAA0001	TRANSISTOR	[M]
Q308	B1GFGCAA0001	TRANSISTOR	[M]
Q310	B1GFGCAA0001	TRANSISTOR	[M]
Q312	B1GFGCAA0001	TRANSISTOR	[M]
Q314	KRA110STA	TRANSISTOR	[M]
Q315	KRA110STA	TRANSISTOR	[M]
Q317	KRA110STA	TRANSISTOR	[M]
Q318	KRA102STA	TRANSISTOR	[M]
Q319	B1GFGCAA0001	TRANSISTOR	[M]
Q320	KTD1304TA	TRANSISTOR	[M]
Q321	KTC3875GRTA	TRANSISTOR	[M]
Q322	B1GFGCAA0001	TRANSISTOR	[M]
Q324	KTD1304TA	TRANSISTOR	[M]
Q325	KTD1304TA	TRANSISTOR	[M]
Q326	KRA110STA	TRANSISTOR	[M]
Q327	KRA110STA	TRANSISTOR	[M]
Q328	KRC107STA	TRANSISTOR	[M]
Q329	KRA110STA	TRANSISTOR	[M]
Q600	KRC102STA	TRANSISTOR	[M]
Q601	KTD1304TA	TRANSISTOR	[M]
Q602	KRA102STA	TRANSISTOR	[M]
Q603	B1GFGCAA0001	TRANSISTOR	[M]
Q604	KRC107STA	TRANSISTOR	[M]
Q605	KRC107STA	TRANSISTOR	[M]
Q606	KRC107STA	TRANSISTOR	[M]
Q607	KRC107STA	TRANSISTOR	[M]
Q608	KRA102STA	TRANSISTOR	[M]
Q609	KRC102STA	TRANSISTOR	[M]
Q750	KTA12710YTA	TRANSISTOR	[M]
Q751	B1ADCF000001	TRANSISTOR	[M]
Q752	B1BCCD000016	TRANSISTOR	[M]
Q753	KTC3875GRTA	TRANSISTOR	[M]
Q754	KTA1046	TRANSISTOR	[M]
Q755	2SD21370PA	TRANSISTOR	[M]
Q756	KRA110STA	TRANSISTOR	[M]
Q757	B1AAKD000009	TRANSISTOR	[M]
Q758	KTC3205YTA	TRANSISTOR	[M]
Q800	KRC103STA	TRANSISTOR	[M]
Q801	KRC111STA	TRANSISTOR	[M]
Q802	KRC103STA	TRANSISTOR	[M]
Q900	KRC107STA	TRANSISTOR	[M]
Q901	KRC107STA	TRANSISTOR	[M]
Q902	KRC107STA	TRANSISTOR	[M]
Q903	KRC107STA	TRANSISTOR	[M]
Q904	KRC107STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q905	KRA102STA	TRANSISTOR	[M]
Q906	KRA102STA	TRANSISTOR	[M]
Q907	KRA102STA	TRANSISTOR	[M]
Q908	KRA102STA	TRANSISTOR	[M]
Q909	KRA102STA	TRANSISTOR	[M]
Q910	KRC107STA	TRANSISTOR	[M]
Q911	KRC107STA	TRANSISTOR	[M]
Q912	KRC107STA	TRANSISTOR	[M]
Q913	KRC107STA	TRANSISTOR	[M]
Q952	2SB0709AHL	TRANSISTOR	[M]
Q953	KRA102STA	TRANSISTOR	[M]
Q955	KRA102STA	TRANSISTOR	[M]
Q956	KRC107STA	TRANSISTOR	[M]
Q5111	B1ADPC000004	TRANSISTOR	[M]
Q5115	B1ADPC000004	TRANSISTOR	[M]
Q5211	UNR212100L	TRANSISTOR	[M]
Q5221	2SD1819A0L	TRANSISTOR	[M]
Q5225	2SD1819A0L	TRANSISTOR	[M]
Q9001	B3NAA0000068	PHOTO INTERRUPTER	[M]
Q9101	B3NAA0000078	PHOTO INTERRUPTER	[M]
Q9102	B3NAA0000011	PHOTO INTERRUPTER	[M]
Q9103	B3NAB0000027	PHOTO INTERRUPTER	[M]
		DIODES	
D2	UDZSTE1710B	DIODE	[M]
D3	B0ACCK000005	DIODE	[M]
D6	B0JCPC000004	DIODE	[M]
D7	B0JCPC000004	DIODE	[M]
D8	B0BC7R500001	DIODE	[M]
D9	B0BC7R500001	DIODE	[M]
D10	B0ECKM000016	DIODE	[M]
D20	B0ACCK000005	DIODE	[M]
D21	B0ACCK000005	DIODE	[M]
D51	B0ECKM000016	DIODE	[M]
D52	B0ECKM000016	DIODE	[M]
D53	B0ECKM000016	DIODE	[M]
D54	B0ECKM000016	DIODE	[M]
D55	B0ECKM000016	DIODE	[M]
D56	B0ECKM000016	DIODE	[M]
D101	B0BC5R000009	DIODE	[M]
D201	B0ACCK000005	DIODE	[M]
D202	MA2J72800L	DIODE	[M]
D203	MA2J72800L	DIODE	[M]
D301	B0BC5R000009	DIODE	[M]
D302	B0BC5R000009	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D402	MA2J72800L	DIODE	[M]
D403	MA2J72800L	DIODE	[M]
D700	B0ACCK000005	DIODE	[M]
D701	B0ACCK000005	DIODE	[M]
D750	B0FBAM000010	DIODE	[M]
D751	B0ECKM000016	DIODE	[M]
D752	B0ECKM000016	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D753	UDZSTE1712B	DIODE	[M]
D756	RL1N4003N02	DIODE	[M]
D757	RL1N4003N02	DIODE	[M]
D758	RL1N4003N02	DIODE	[M]
D759	RL1N4003N02	DIODE	[M]
D760	RL1N4003N02	DIODE	[M]
D761	RL1N4003N02	DIODE	[M]
D762	UDZSTE1730B	DIODE	[M]
D763	UDZSTE1710B	DIODE	[M]
D764	B0BC7R500001	DIODE	[M]
D765	B0BC5R600003	DIODE	[M]
D767	B0ECKM000016	DIODE	[M]
D769	B0ECKM000016	DIODE	[M]
D770	B0ACCK000005	DIODE	[M]
D771	UDZSTE1715B	DIODE	[M]
D801	1SS380TE-17	DIODE	[M]
D802	1SS380TE-17	DIODE	[M]
D803	1SS380TE-17	DIODE	[M]
D804	B0ACCK000005	DIODE	[M]
D805	B0ACCK000005	DIODE	[M]
D806	B0ADCJ000020	DIODE	[M]
D807	B0ACCK000005	DIODE	[M]
D900	SLI325URCT31	DIODE	[M]
D901	SPR325MVWT31	DIODE	[M]
D902	SPR325MVWT31	DIODE	[M]
D903	SPR325MVWT31	DIODE	[M]
D904	SPR325MVWT31	DIODE	[M]
D905	SPR325MVWT31	DIODE	[M]
D906	B0BC5R000009	DIODE	[M]
D908	B0ACCK000005	DIODE	[M]
D909	LNJ301MPUJAD	DIODE	[M]
D910	LNJ301MPUJAD	DIODE	[M]
D911	B0ACCK000005	DIODE	[M]
D912	B0ACCK000005	DIODE	[M]
D913	B0ACCK000005	DIODE	[M]
D914	B0ACCK000005	DIODE	[M]
D915	B0ACCK000005	DIODE	[M]
D916	B0ACCK000005	DIODE	[M]
D921	LNJ301MPUJAD	DIODE	[M]
D922	LNJ301MPUJAD	DIODE	[M]
D5131	MA2J72800L	DIODE	[M]
		CHIP BEADS & INDUCTORS	
LB2501	J0JHC0000045	CHIP BEADS	[M]
LB2502	J0JHC0000045	CHIP BEADS	[M]
LB2503	J0JHC0000045	CHIP BEADS	[M]
LB3001	J0JHC0000045	CHIP BEADS	[M]
LB3002	J0JHC0000045	CHIP BEADS	[M]
LB3201	D0GB101JA002	100 1/16W	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]
LB3204	J0JCC0000119	CHIP INDUCTOR	[M]
LB3205	J0JCC0000119	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB3206	J0JCC0000119	CHIP INDUCTOR	[M]
LB3207	J0JCC0000119	CHIP INDUCTOR	[M]
LB3208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4200	J0JBC0000015	CHIP INDUCTOR	[M]
LB4201	J0JCC0000119	CHIP INDUCTOR	[M]
LB4207	J0JCC0000119	CHIP INDUCTOR	[M]
LB4208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4209	J0JCC0000119	CHIP INDUCTOR	[M]
LB4210	J0JCC0000119	CHIP INDUCTOR	[M]
LB4211	J0JCC0000119	CHIP INDUCTOR	[M]
LB4212	J0JCC0000119	CHIP INDUCTOR	[M]
LB4214	J0JCC0000119	CHIP INDUCTOR	[M]
LB4215	J0JCC0000119	CHIP INDUCTOR	[M]
LB4216	J0JBC0000015	CHIP INDUCTOR	[M]
LB4217	J0JBC0000015	CHIP INDUCTOR	[M]
LB4218	ERJ3GEY0R00V	0 1/16W	[M]
LB5101	J0JHC0000045	CHIP BEADS	[M]
LB5102	J0JBC0000015	CHIP INDUCTOR	[M]
LB5103	J0JBC0000015	CHIP INDUCTOR	[M]
LB5201	J0JBC0000015	CHIP INDUCTOR	[M]
LB5204	J0JCC0000119	CHIP INDUCTOR	[M]
LB5205	J0JCC0000119	CHIP INDUCTOR	[M]
LB5206	J0JBC0000015	CHIP INDUCTOR	[M]
LB5207	J0JCC0000119	CHIP INDUCTOR	[M]
LB5208	J0JBC0000015	CHIP INDUCTOR	[M]
LB5210	J0JCC0000119	CHIP INDUCTOR	[M]
LB5211	J0JCC0000119	CHIP INDUCTOR	[M]
LB5212	J0JCC0000119	CHIP INDUCTOR	[M]
LB5213	J0JCC0000119	CHIP INDUCTOR	[M]
LB5214	J0JHC0000045	CHIP BEADS	[M]
LB5215	J0JCC0000119	CHIP INDUCTOR	[M]
LB5217	J0JCC0000119	CHIP INDUCTOR	[M]
LB5219	J0JCC0000119	CHIP INDUCTOR	[M]
LB5220	J0JBC0000015	CHIP INDUCTOR	[M]
LB5222	ERJ3GEY0R00V	0 1/16W	[M]
LB5228	J0JBC0000015	CHIP INDUCTOR	[M]
LB5229	J0JBC0000015	CHIP INDUCTOR	[M]
LB5231	J0JHC0000045	CHIP BEADS	[M]
LB5233	J0JHC0000045	CHIP CAPACITOR	[M]
LB5235	J0JBC0000015	CHIP INDUCTOR	[M]
LB6261	J0JBC0000015	CHIP INDUCTOR	[M]
LB6301	J0JHC0000045	CHIP CAPACITOR	[M]
LB6561	J0JBC0000015	CHIP INDUCTOR	[M]
LB6562	J0JCC0000167	CHIP INDUCTOR	[M]
LB6564	J0JCC0000077	CHIP BEEZ	[M]
LB6566	J0JBC0000015	CHIP INDUCTOR	[M]
LB6567	J0JCC0000119	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR900	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	

Ref. No.	Part No.	Part Name & Description	Remarks
S900	EVQ21405R	SW EX DISC	[M]
S901	EVQ21405R	SW DISC SKIP	[M]
S902	EVQ21405R	SW DISC OPEN/CLOSE	[M]
S903	EVQ21405R	SW PLAY	[M]
S904	EVQ21405R	SW PAUSE	[M]
S905	EVQ21405R	SW STOP	[M]
S906	EVQ11G07K	SW SEL	[M]
S907	EVQ11G07K	SW TUNE DOWN	[M]
S908	EVQ11G07K	SW TUNE UP	[M]
S909	EVQ11G07K	SW PROGRESSIVE	[M]
S910	EVQ11G07K	SW CSM	[M]
S911	EVQ11G07K	SW DIG ON	[M]
S912	EVQ11G07K	SW POWER	[M]
S9001	K0L1BA000086	SW LOADING	[M]
		CONNECTORS	
CN300	K1KB30A00079	30P CONNECTOR	[M]
CN301	RJS1A9411	11P FFC CONNECTOR	[M]
CN302	RJS2A5622	22P FFC CONNECTOR	[M]
CN303	K1KA11A00093	11P CONNECTOR	[M]
CN304	RJT119W05V	5P CONNECTOR	[M]
CN305	K1KA22A00046	22P CONNECTOR	[M]
CN306	K1KA26A00091	26P CONNECTOR	[M]
CN307	K1MN19A00021	19P FFC CONNECTOR	[M]
CN308	RJS2A5611	11P FFC CONNECTOR	[M]
CN309	RJS2A5611	11P FFC CONNECTOR	[M]
CN600	RJT107K30T	30P CONNECTOR	[M]
CN900	RJS2A7722	20P FFC CONNECTOR	[M]
CN901	RJS1A6211-1	11P FFC CONNECTOR	[M]
CN950	RJS2A7719	19P FFC CONNECTOR	[M]
CN951	K1FB121A0007	SCART TERMINAL CONNECTOR	[M]
CN9003	K1MN11B00065	11P CONNECTOR	[M]
CN9102	K1MN11B00065	11P CONNECTOR	[M]
CP100	RJU100W11	11P CONNECTOR	[M]
CP702	K1KB11A00020	2P CONNECTOR	[M]
CP703	K1KA11A00093	11P CONNECTOR	[M]
PS3201	K1KB22A00025	22P CONNECTOR	[M]
PS4201	K1KB26A00027	26P CONNECTOR	[M]
FP2501	K1MN15A00037	15P CONNECTOR	[M]
FP5101	K1MN30A00048	30P CONNECTOR	[M]
FP5102	K1MN50B00021	50P CONNECTOR	[M]
FP5201	K1MN50A00005	50P CONNECTOR	[M]
		COILS	
L4	G0A100G00005	INDUCTOR	[M]
L6	G0A101G00022	COIL	[M]
L7	G0A100G00005	INDUCTOR	[M]
L8	G0A100G00005	INDUCTOR	[M]
L9	G0A101G00022	COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L10	J0JBC0000019	CHIP INDUCTOR	[M]
L11	J0JBC0000019	CHIP INDUCTOR	[M]
L50	ELESN220JA	COIL	[M]
L51	ELJFCR39KF	CHIP INDUCTOR	[M]
L52	J0JBC0000015	CHIP INDUCTOR	[M]
L53	J0JBC0000015	CHIP INDUCTOR	[M]
L54	J0JBC0000015	CHIP INDUCTOR	[M]
L55	J0JBC0000015	CHIP INDUCTOR	[M]
L56	J0JBC0000015	CHIP INDUCTOR	[M]
L57	J0JBC0000015	CHIP INDUCTOR	[M]
L58	J0JBC0000015	CHIP INDUCTOR	[M]
L59	J0JBC0000015	CHIP INDUCTOR	[M]
L60	J0JBC0000015	CHIP INDUCTOR	[M]
L61	J0JBC0000015	CHIP INDUCTOR	[M]
L62	J0JBC0000015	CHIP INDUCTOR	[M]
L63	J0JBC0000015	CHIP INDUCTOR	[M]
L64	J0JBC0000015	CHIP INDUCTOR	[M]
L600	J0JBC0000019	CHIP INDUCTOR	[M]
L601	J0JBC0000019	CHIP INDUCTOR	[M]
L603	J0JBC0000019	CHIP INDUCTOR	[M]
L604	J0JBC0000019	CHIP INDUCTOR	[M]
L605	J0JBC0000041	CHIP INDUCTOR	[M]
L750	G0A100G00005	INDUCTOR	[M] ⚠
L751	G0A100G00005	INDUCTOR	[M] ⚠
L800	RLQB3R3KT-1Y	COIL	[M]
L801	G0C101JA0030	INDUCTOR	[M]
L802	G0C101JA0030	INDUCTOR	[M]
L900	J0JBC0000019	CHIP INDUCTOR	[M]
L901	J0JBC0000019	CHIP INDUCTOR	[M]
L902	J0JBC0000019	CHIP INDUCTOR	[M]
L903	J0JBC0000041	CHIP INDUCTOR	[M]
L950	VLP0145-T	CHIP INDUCTOR	[M]
L951	VLP0145-T	CHIP INDUCTOR	[M]
L952	VLP0145-T	CHIP INDUCTOR	[M]
L953	VLP0145-T	CHIP INDUCTOR	[M]
L2001	G1C100K00020	CHIP INDUCTOR	[M]
L2002	G1C100K00020	CHIP INDUCTOR	[M]
L3101	G1C100K00020	CHIP INDUCTOR	[M]
L4211	G1C220KA0038	CHIP CAPACITOR	[M]
L5110	G1C100K00020	CHIP INDUCTOR	[M]
L5221	G1C100K00020	CHIP INDUCTOR	[M]
L6561	G1C220KA0038	CHIP INDUCTOR	[M]
L6562	G1C220KA0038	CHIP INDUCTOR	[M]
		COMPONENT COMBINATION	
Z101	RLA2Z007-T	COIL	[M]
Z102	G2BAE0000003	AM IF BLOCK	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z900	RCDGP1UM272R	INFRAREDRAY	[M]
		CERAMIC FILTERS	

Ref. No.	Part No.	Part Name & Description	Remarks
CF201	RLFFETNGD01L	CERAMIC FILTER	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X600	H0J245500035	24.576M CRYSTAL	[M]
X800	H2B100500004	CERAMIC RESONATORS	[M]
X801	RSXC4M33S02T	CRYSTAL	[M]
X6501	H0J368600003	CRYSTAL	[M]
		DISPLAY TUBE	
FL900	A2BD00000065	FL DISPLAY	[M]
FL4201	F1H0J1050018	1 6.3V	[M]
FL6251	F1J1E1040022	0.1 25V	[M]
FL6252	F1H0J1050018	1 6.3V	[M]
FL6253	F1H0J1050018	1 6.3V	[M]
FL6254	F1H0J1050018	1 6.3V	[M]
		FUSE PROTECTOR	
FP750	K5G202AA0002	FUSE PROTECTOR	[M] ⚠
		JACKS	
JK101	RJH8304N	JK ANTENNA	[M]
JK300	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK301	K1U208B00002	JK VIDEO	[M]
JK302	K2HA306B0069	JK 3 PIN	[M]
JK303	RJH2405L	JK 4 PIN RCA	[M]
JK304	RJH2405L	JK 4 PIN RCA	[M]
JK600	B3ZAZ0000012	JK OPTICAL INPUT	[M]
JK901	K2HC103A0023	JK SMALL SIGN	[M]
		EARTH TERMINAL	
E301	K4CZ01000027	TERMINALS	[M]
E750	K4CZ01000027	TERMINALS	[M]
		WIRES	
FC9101	RWJ4906082SS	WIRE	[M]
W304	REXX0329	5P WIRE	[M]
		RESISTORS	
R1	D0GB1R0JA002	1 1/16W	[M]
R2	D0GB1R0JA002	1 1/16W	[M]
R3	D0GB1R0JA002	1 1/16W	[M]
R3	ERJ3GEY0R00V	0 1/16W	[M]
R4	D0GB1R0JA002	1 1/16W	[M]

R4	D0GB1R00A002	1 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5	ERJ3GEYJ103V	10K 1/16W	[M]
R6	D0GB1R0JA002	1 1/16W	[M]
R7	D0GB1R0JA002	1 1/16W	[M]
R8	D0GB1R0JA002	1 1/16W	[M]
R9	D0GB1R0JA002	1 1/16W	[M]
R10	D0GB1R0JA002	1 1/16W	[M]
R11	D0GB1R0JA002	1 1/16W	[M]
R12	ERJ3GEYJ822V	8.2K 1/16W	[M]
R14	ERJ3GEYJ102V	1K 1/16W	[M]
R15	ERJ3GEYJ102V	1K 1/16W	[M]
R16	ERJ3GEYJ102V	1K 1/16W	[M]
R17	D0GB392JA002	3.9K 1/16W	[M]
R18	ERJ3GEYJ472V	4.7K 1/16W	[M]
R19	ERJ3GEYJ472V	4.7K 1/16W	[M]
R20	ERJ3GEYJ331V	330 1/16W	[M]
R21	D0GB1R0JA002	1 1/16W	[M]
R22	D0GB1R0JA002	1 1/16W	[M]
R23	D0GB122JA019	1.2K 1/16W	[M]
R24	ERJ3GEYJ102V	1K 1/16W	[M]
R25	D0GB100JA002	10 1/16W	[M]
R26	D0GB271JA002	270 1/16W	[M]
R35	ERJ3GEYJ103V	10K 1/16W	[M]
R36	ERJ3GEYJ103V	10K 1/16W	[M]
R51	D0GB183JA002	18K 1/16W	[M]
R52	ERJ3GEYJ223V	22K 1/16W	[M]
R56	D0HB750ZA003	75 3W	[M]
R57	D0HB750ZA003	75 3W	[M]
R58	D0HB750ZA003	75 3W	[M]
R59	D0HB750ZA003	75 3W	[M]
R60	D0HB750ZA003	75 3W	[M]
R61	ERJ3GEYD750V	75 1/16W	[M]
R62	D0GB1R0JA002	1 1/16W	[M]
R63	D0GB1R0JA002	1 1/16W	[M]
R64	ERJ3GEYJ472V	4.7K 1/16W	[M]
R65	ERJ3GEYJ103V	10K 1/16W	[M]
R66	D0GB121JA002	120 1/16W	[M]
R67	D0GB151JA008	150 1/16W	[M]
R68	ERJ3GEYJ472V	4.7K 1/16W	[M]
R69	ERJ3GEYJ103V	10K 1/16W	[M]
R70	ERJ3GEYJ331V	330 1/16W	[M]
R71	ERJ3GEYJ331V	330 1/16W	[M]
R72	ERJ3GEYJ331V	330 1/16W	[M]
R73	D0GB1R0JA002	1 1/16W	[M]
R74	D0GB1R0JA002	1 1/16W	[M]
R75	ERJ3GEYJ331V	330 1/16W	[M]
R76	D0GB1R0JA002	1 1/16W	[M]
R77	D0GB1R0JA002	1 1/16W	[M]
R78	D0GB1R0JA002	1 1/16W	[M]
R79	D0GB1R0JA002	1 1/16W	[M]
R80	D0GB750JA019	75 1/16W	[M]
R81	D0GB101JA002	100 1/16W	[M]
R82	D0GB750JA019	75 1/16W	[M]
R83	D0GB750JA019	75 1/16W	[M]
R85	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	D0GB101JA002	100 1/16W	[M]
R104	ERJ3GEYJ103V	10K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	D0GB474JA002	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R108	D0GB474JA002	470K 1/16W	[M]
R109	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	D0GB562JA002	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	D0GB683JA002	68K 1/16W	[M]
R118	D0GB332JA002	3.3K 1/16W	[M]
R119	ERJ3GEYJ123V	12K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	D0GB272JA002	2.7K 1/16W	[M]
R123	D0GB683JA002	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	D0GB820JA019	82 1/16W	[M]
R129	D0GB273JA002	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	D0GB121JA002	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	D0GB332JA002	3.3K 1/16W	[M]
R139	ERJ3GEYJ223V	22K 1/16W	[M]
R140	ERJ3GEYJ223V	22K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	D0GB121JA002	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	D0GB820JA019	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ473V	47K 1/16W	[M]
R202	ERJ3GEYJ222V	2.2K 1/16W	[M]
R203	ERJ3GEYJ103V	10K 1/16W	[M]
R204	D0GB332JA002	3.3K 1/16W	[M]
R205	ERJ3GEYJ103V	10K 1/16W	[M]
R206	D0GB332JA002	3.3K 1/16W	[M]
R207	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R208	D0GB332JA002	3.3K 1/16W	[M]
R209	ERJ3GEY0R00V	0 1/16W	[M]
R210	ERJ3GEYJ104V	100K 1/16W	[M]
R211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R212	D0GB272JA002	2.7K 1/16W	[M]
R213	ERJ3GEYJ102V	1K 1/16W	[M]
R214	ERJ3GEYJ103V	10K 1/16W	[M]
R215	ERJ3GEYJ104V	100K 1/16W	[M]
R216	ERJ3GEYJ473V	47K 1/16W	[M]
R217	ERJ3GEYJ182V	1.8K 1/16W	[M]
R218	ERJ3GEYJ102V	1K 1/16W	[M]
R219	ERJ3GEYJ103V	10K 1/16W	[M]
R220	ERJ3GEY0R00V	0 1/16W	[M]
R221	ERJ3GEYJ103V	10K 1/16W	[M]
R222	ERJ3GEYJ103V	10K 1/16W	[M]
R223	ERJ3GEYJ103V	10K 1/16W	[M]
R224	ERJ3GEYJ103V	10K 1/16W	[M]
R225	D0GB333JA002	33K 1/16W	[M]
R226	ERJ3GEYJ103V	10K 1/16W	[M]
R227	ERJ3GEYJ123V	12K 1/16W	[M]
R228	D0GB333JA002	33K 1/16W	[M]
R229	ERJ3GEYJ103V	10K 1/16W	[M]
R230	D0GB273JA002	27K 1/16W	[M]
R231	D0GB562JA002	5.6K 1/16W	[M]
R232	ERJ3GEYJ102V	1K 1/16W	[M]
R233	ERJ3GEYJ682V	6.8K 1/16W	[M]
R234	ERJ3GEYJ103V	10K 1/16W	[M]
R238	ERJ3GEYJ182V	1.8K 1/16W	[M]
R239	ERJ3GEYJ472V	4.7K 1/16W	[M]
R240	D0GB152JA002	1.5K 1/16W	[M]
R241	D0GB332JA002	3.3K 1/16W	[M]
R242	D0GB563JA002	56K 1/16W	[M]
R243	D0GB563JA002	56K 1/16W	[M]
R244	ERJ3GEYJ104V	100K 1/16W	[M]
R245	ERJ3GEYJ682V	6.8K 1/16W	[M]
R246	D0GB273JA002	27K 1/16W	[M]
R247	ERJ3GEYJ103V	10K 1/16W	[M]
R248	D0GB393JA002	39K 1/16W	[M]
R249	D0GB220JA002	22 1/16W	[M]
R250	D0GB220JA002	22 1/16W	[M]
R251	D0GB220JA002	22 1/16W	[M]
R252	D0GB220JA002	22 1/16W	[M]
R253	ERJ3GEYJ472V	4.7K 1/16W	[M]
R254	D0GB100JA002	10 1/16W	[M]
R255	D0GB302JA008	3K 1/16W	[M]
R256	ERJ3GEYJ223V	22K 1/16W	[M]
R257	D0GB273JA002	27K 1/16W	[M]
R258	ERJ3GEYJ102V	1K 1/16W	[M]
R259	D0GB683JA002	68K 1/16W	[M]
R260	D0GB562JA002	5.6K 1/16W	[M]
R261	D0GB333JA002	33K 1/16W	[M]
R262	ERJ3GEYJ561V	560 1/16W	[M]
R264	ERJ3GEYJ222V	2.2K 1/16W	[M]
R265	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R266	ERJ3GEYJ104V	100K 1/16W	[M]
R267	D0GB272JA002	2.7K 1/16W	[M]
R273	ERJ3GEYJ472V	4.7K 1/16W	[M]
R274	D0GB152JA002	1.5K 1/16W	[M]
R275	D0GB272JA002	2.7K 1/16W	[M]
R276	D0GB273JA002	27K 1/16W	[M]
R277	ERJ3GEYJ223V	22K 1/16W	[M]
R278	D0GB562JA002	5.6K 1/16W	[M]
R279	D0GB562JA002	5.6K 1/16W	[M]
R280	ERJ3GEYJ223V	22K 1/16W	[M]
R281	ERJ3GEYJ103V	10K 1/16W	[M]
R282	ERJ3GEYJ223V	22K 1/16W	[M]
R283	ERJ3GEYJ104V	100K 1/16W	[M]
R284	D0GB272JA002	2.7K 1/16W	[M]
R286	D0GB122JA019	1.2K 1/16W	[M]
R301	D0GB273JA002	27K 1/16W	[M]
R302	D0GB272JA002	2.7K 1/16W	[M]
R303	D0GB272JA002	2.7K 1/16W	[M]
R304	D0GB563JA002	56K 1/16W	[M]
R305	ERJ3GEYJ682V	6.8K 1/16W	[M]
R306	D0GB101JA002	100 1/16W	[M]
R307	D0GB333JA002	33K 1/16W	[M]
R308	ERJ3GEYJ103V	10K 1/16W	[M]
R309	D0GB333JA002	33K 1/16W	[M]
R310	D0GB333JA002	33K 1/16W	[M]
R311	ERJ3GEYJ223V	22K 1/16W	[M]
R312	D0GB273JA002	27K 1/16W	[M]
R313	D0GB562JA002	5.6K 1/16W	[M]
R314	ERJ3GEYJ102V	1K 1/16W	[M]
R315	ERJ3GEYJ102V	1K 1/16W	[M]
R316	ERJ3GEYJ102V	1K 1/16W	[M]
R317	ERJ3GEYJ472V	4.7K 1/16W	[M]
R318	ERJ3GEYJ472V	4.7K 1/16W	[M]
R321	D0GB392JA002	3.9K 1/16W	[M]
R322	ERJ3GEYJ472V	4.7K 1/16W	[M]
R323	ERJ3GEYJ822V	8.2K 1/16W	[M]
R324	ERJ3GEYJ822V	8.2K 1/16W	[M]
R325	ERJ3GEYJ104V	100K 1/16W	[M]
R326	D0GB563JA002	56K 1/16W	[M]
R327	ERJ3GEYJ682V	6.8K 1/16W	[M]
R328	D0GB563JA002	56K 1/16W	[M]
R329	ERJ3GEYJ104V	100K 1/16W	[M]
R330	ERJ3GEYJ682V	6.8K 1/16W	[M]
R331	ERJ3GEYJ682V	6.8K 1/16W	[M]
R332	ERJ3GEYJ104V	100K 1/16W	[M]
R333	ERJ3GEYJ822V	8.2K 1/16W	[M]
R334	D0GB683JA002	68K 1/16W	[M]
R335	D0GB563JA002	56K 1/16W	[M]
R337	ERJ3GEYJ102V	1K 1/16W	[M]
R338	ERJ3GEYJ182V	1.8K 1/16W	[M]
R339	ERJ3GEYJ182V	1.8K 1/16W	[M]
R340	ERJ3GEYJ182V	1.8K 1/16W	[M]
R341	D0GB272JA002	2.7K 1/16W	[M]
R342	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R343	ERJ3GEYJ473V	47K 1/16W	[M]
R344	ERJ3GEYJ473V	47K 1/16W	[M]
R345	ERJ3GEYJ473V	47K 1/16W	[M]
R346	ERJ3GEYJ391V	390 1/16W	[M]
R347	ERJ3GEYJ472V	4.7K 1/16W	[M]
R348	ERJ3GEYJ222V	2.2K 1/16W	[M]
R349	ERJ3GEYJ222V	2.2K 1/16W	[M]
R350	D0GB332JA002	3.3K 1/16W	[M]
R351	D0GB273JA002	27K 1/16W	[M]
R352	D0GB563JA002	56K 1/16W	[M]
R353	ERJ3GEYJ391V	390 1/16W	[M]
R354	ERJ3GEYJ182V	1.8K 1/16W	[M]
R355	D0GB563JA002	56K 1/16W	[M]
R356	D0GB272JA002	2.7K 1/16W	[M]
R357	D0GB273JA002	27K 1/16W	[M]
R358	D0GB563JA002	56K 1/16W	[M]
R359	D0GB273JA002	27K 1/16W	[M]
R360	D0GB563JA002	56K 1/16W	[M]
R361	D0GB273JA002	27K 1/16W	[M]
R362	D0GB563JA002	56K 1/16W	[M]
R363	D0GB273JA002	27K 1/16W	[M]
R364	ERJ3GEYJ103V	10K 1/16W	[M]
R365	ERJ3GEYJ182V	1.8K 1/16W	[M]
R366	D0GB563JA002	56K 1/16W	[M]
R367	D0GB273JA002	27K 1/16W	[M]
R368	D0GB332JA002	3.3K 1/16W	[M]
R369	D0GB563JA002	56K 1/16W	[M]
R370	ERJ3GEYJ102V	1K 1/16W	[M]
R371	D0GB332JA002	3.3K 1/16W	[M]
R372	D0GB273JA002	27K 1/16W	[M]
R373	D0GB563JA002	56K 1/16W	[M]
R374	ERJ3GEYJ102V	1K 1/16W	[M]
R375	D0GB273JA002	27K 1/16W	[M]
R376	D0GB273JA002	27K 1/16W	[M]
R377	D0GB563JA002	56K 1/16W	[M]
R378	D0GB563JA002	56K 1/16W	[M]
R379	ERJ3GEYJ182V	1.8K 1/16W	[M]
R380	ERJ3GEYJ182V	1.8K 1/16W	[M]
R381	ERJ3GEYJ822V	8.2K 1/16W	[M]
R382	ERJ3GEYJ182V	1.8K 1/16W	[M]
R383	D0GB563JA002	56K 1/16W	[M]
R384	D0GB273JA002	27K 1/16W	[M]
R385	ERJ3GEYJ473V	47K 1/16W	[M]
R401	ERJ3GEYJ473V	47K 1/16W	[M]
R402	ERJ3GEYJ222V	2.2K 1/16W	[M]
R403	ERJ3GEYJ103V	10K 1/16W	[M]
R404	D0GB332JA002	3.3K 1/16W	[M]
R405	ERJ3GEYJ103V	10K 1/16W	[M]
R406	D0GB332JA002	3.3K 1/16W	[M]
R407	ERJ3GEYJ103V	10K 1/16W	[M]
R408	D0GB332JA002	3.3K 1/16W	[M]
R409	ERJ3GEY0R00V	0 1/16W	[M]
R410	ERJ3GEYJ104V	100K 1/16W	[M]
R411	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R412	D0GB272JA002	2.7K 1/16W	[M]
R413	ERJ3GEYJ102V	1K 1/16W	[M]
R414	ERJ3GEYJ103V	10K 1/16W	[M]
R415	ERJ3GEYJ104V	100K 1/16W	[M]
R416	ERJ3GEYJ473V	47K 1/16W	[M]
R417	ERJ3GEYJ182V	1.8K 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	ERJ3GEYJ103V	10K 1/16W	[M]
R420	ERJ3GEY0R00V	0 1/16W	[M]
R421	ERJ3GEYJ103V	10K 1/16W	[M]
R422	ERJ3GEYJ103V	10K 1/16W	[M]
R423	ERJ3GEYJ103V	10K 1/16W	[M]
R424	ERJ3GEYJ103V	10K 1/16W	[M]
R425	D0GB333JA002	33K 1/16W	[M]
R426	ERJ3GEYJ103V	10K 1/16W	[M]
R427	ERJ3GEYJ123V	12K 1/16W	[M]
R428	D0GB333JA002	33K 1/16W	[M]
R429	ERJ3GEYJ103V	10K 1/16W	[M]
R430	D0GB273JA002	27K 1/16W	[M]
R431	D0GB562JA002	5.6K 1/16W	[M]
R432	ERJ3GEYJ102V	1K 1/16W	[M]
R433	ERJ3GEYJ682V	6.8K 1/16W	[M]
R434	ERJ3GEYJ103V	10K 1/16W	[M]
R438	ERJ3GEYJ182V	1.8K 1/16W	[M]
R439	ERJ3GEYJ472V	4.7K 1/16W	[M]
R440	D0GB152JA002	1.5K 1/16W	[M]
R441	D0GB332JA002	3.3K 1/16W	[M]
R442	D0GB563JA002	56K 1/16W	[M]
R443	D0GB563JA002	56K 1/16W	[M]
R444	ERJ3GEYJ104V	100K 1/16W	[M]
R445	ERJ3GEYJ682V	6.8K 1/16W	[M]
R446	D0GB273JA002	27K 1/16W	[M]
R447	ERJ3GEYJ103V	10K 1/16W	[M]
R448	D0GB393JA002	39K 1/16W	[M]
R449	D0GB220JA002	22 1/16W	[M]
R450	D0GB220JA002	22 1/16W	[M]
R451	D0GB220JA002	22 1/16W	[M]
R452	D0GB220JA002	22 1/16W	[M]
R453	ERJ3GEYJ472V	4.7K 1/16W	[M]
R454	D0GB100JA002	10 1/16W	[M]
R455	D0GB302JA008	3K 1/16W	[M]
R456	ERJ3GEYJ223V	22K 1/16W	[M]
R457	D0GB273JA002	27K 1/16W	[M]
R458	ERJ3GEYJ102V	1K 1/16W	[M]
R459	D0GB683JA002	68K 1/16W	[M]
R460	D0GB562JA002	5.6K 1/16W	[M]
R461	D0GB333JA002	33K 1/16W	[M]
R462	ERJ3GEYJ561V	560 1/16W	[M]
R464	ERJ3GEYJ222V	2.2K 1/16W	[M]
R465	ERJ3GEYJ222V	2.2K 1/16W	[M]
R466	ERJ3GEYJ104V	100K 1/16W	[M]
R467	D0GB272JA002	2.7K 1/16W	[M]
R473	ERJ3GEYJ472V	4.7K 1/16W	[M]
R474	D0GB152JA002	1.5K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R475	D0GB272JA002	2.7K 1/16W	[M]
R476	D0GB273JA002	27K 1/16W	[M]
R477	ERJ3GEYJ223V	22K 1/16W	[M]
R478	D0GB562JA002	5.6K 1/16W	[M]
R479	D0GB562JA002	5.6K 1/16W	[M]
R480	ERJ3GEYJ223V	22K 1/16W	[M]
R481	ERJ3GEYJ103V	10K 1/16W	[M]
R482	ERJ3GEYJ223V	22K 1/16W	[M]
R483	ERJ3GEYJ104V	100K 1/16W	[M]
R484	D0GB272JA002	2.7K 1/16W	[M]
R486	D0GB122JA019	1.2K 1/16W	[M]
R605	ERJ3GEYJ222V	2.2K 1/16W	[M]
R606	ERJ3GEYJ123V	12K 1/16W	[M]
R607	ERJ3GEYJ472V	4.7K 1/16W	[M]
R608	ERJ3GEYJ472V	4.7K 1/16W	[M]
R609	ERJ3GEYJ123V	12K 1/16W	[M]
R610	ERJ3GEYJ123V	12K 1/16W	[M]
R611	ERJ3GEYJ123V	12K 1/16W	[M]
R612	ERJ3GEYJ102V	1K 1/16W	[M]
R613	ERJ3GEYJ153V	15K 1/16W	[M]
R614	ERJ3GEYJ102V	1K 1/16W	[M]
R615	ERJ3GEYJ103V	10K 1/16W	[M]
R616	ERJ3GEYJ472V	4.7K 1/16W	[M]
R617	ERJ3GEYJ103V	10K 1/16W	[M]
R618	D0GB101JA002	100 1/16W	[M]
R619	ERJ3GEYJ221V	220 1/16W	[M]
R620	D0GB105JA002	1M 1/16W	[M]
R622	ERJ3GEYJ221V	220 1/16W	[M]
R623	ERJ3GEYJ221V	220 1/16W	[M]
R624	ERJ3GEYJ221V	220 1/16W	[M]
R625	ERJ3GEYJ221V	220 1/16W	[M]
R626	ERJ3GEYJ221V	220 1/16W	[M]
R627	D0GB122JA019	1.2K 1/16W	[M]
R628	ERJ3GEYJ471V	470 1/16W	[M]
R629	ERJ3GEYJ471V	470 1/16W	[M]
R630	ERJ3GEYJ471V	470 1/16W	[M]
R631	ERJ3GEYJ471V	470 1/16W	[M]
R632	ERJ3GEYJ103V	10K 1/16W	[M]
R633	ERJ3GEYJ103V	10K 1/16W	[M]
R634	D0GB752JA008	7.5K 1/16W	[M]
R637	D0GB752JA008	7.5K 1/16W	[M]
R638	ERJ3GEYJ103V	10K 1/16W	[M]
R639	ERJ3GEYJ103V	10K 1/16W	[M]
R640	ERJ3GEYJ102V	1K 1/16W	[M]
R641	ERJ3GEYJ221V	220 1/16W	[M]
R643	ERJ3GEYJ123V	12K 1/16W	[M]
R644	ERJ3GEYJ123V	12K 1/16W	[M]
R645	ERJ3GEYJ123V	12K 1/16W	[M]
R646	ERJ3GEYJ102V	1K 1/16W	[M]
R649	ERJ3GEYJ123V	12K 1/16W	[M]
R650	ERJ3GEYJ123V	12K 1/16W	[M]
R651	ERJ3GEYJ102V	1K 1/16W	[M]
R652	ERJ3GEYJ102V	1K 1/16W	[M]
R653	ERJ3GEYJ103V	10K 1/16W	[M]

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Ref. No.	Part No.	Part Name & Description	Remarks
R654	ERJ3GEYJ103V	10K 1/16W	[M]
R655	ERJ3GEYJ221V	220 1/16W	[M]
R656	ERJ3GEYJ221V	220 1/16W	[M]
R657	ERJ3GEYJ104V	100K 1/16W	[M]
R658	ERJ3GEYJ104V	100K 1/16W	[M]
R659	ERJ3GEYJ221V	220 1/16W	[M]
R660	ERJ3GEYJ221V	220 1/16W	[M]
R661	ERJ3GEYJ104V	100K 1/16W	[M]
R662	ERJ3GEYJ104V	100K 1/16W	[M]
R663	ERJ3GEYJ153V	15K 1/16W	[M]
R664	ERJ3GEYJ103V	10K 1/16W	[M]
R665	ERJ3GEYJ472V	4.7K 1/16W	[M]
R666	ERJ3GEYJ472V	4.7K 1/16W	[M]
R667	ERJ3GEYJ472V	4.7K 1/16W	[M]
R668	ERJ3GEYJ472V	4.7K 1/16W	[M]
R669	ERJ3GEYJ103V	10K 1/16W	[M]
R670	ERJ3GEYJ153V	15K 1/16W	[M]
R671	D0GB392JA002	3.9K 1/16W	[M]
R672	D0GB392JA002	3.9K 1/16W	[M]
R673	ERJ3GEYJ102V	1K 1/16W	[M]
R675	D0GB563JA002	56K 1/16W	[M]
R676	ERJ3GEYJ102V	1K 1/16W	[M]
R678	ERJ3GEYJ103V	10K 1/16W	[M]
R679	ERJ3GEYJ103V	10K 1/16W	[M]
R680	ERJ3GEYJ103V	10K 1/16W	[M]
R681	D0GB272JA002	2.7K 1/16W	[M]
R682	D0GB272JA002	2.7K 1/16W	[M]
R683	ERJ3GEYJ104V	100K 1/16W	[M]
R684	ERJ3GEYJ221V	220 1/16W	[M]
R685	ERJ3GEYJ223V	22K 1/16W	[M]
R686	ERJ3GEYJ223V	22K 1/16W	[M]
R701	ERJ3GEYJ472V	4.7K 1/16W	[M]
R722	D0GB333JA002	33K 1/16W	[M]
R723	D0GB563JA002	56K 1/16W	[M]
R724	D0GB332JA002	3.3K 1/16W	[M]
R725	ERJ3GEY0R00V	0 1/16W	[M]
R726	ERJ3GEY0R00V	0 1/16W	[M]
R727	ERJ3GEYJ102V	1K 1/16W	[M]
R728	D0GB274JA002	270K 1/16W	[M]
R729	ERJ3GEYJ153V	15K 1/16W	[M]
R730	ERJ3GEYJ822V	8.2K 1/16W	[M]
R731	ERJ3GEYJ823V	82K 1/16W	[M]
R732	ERJ3GEYJ823V	82K 1/16W	[M]
R733	D0GB332JA002	3.3K 1/16W	[M]
R734	ERJ3GEYJ472V	4.7K 1/16W	[M]
R735	ERJ3GEYJ472V	4.7K 1/16W	[M]
R736	ERJ3GEYJ103V	10K 1/16W	[M]
R737	ERJ3GEYJ223V	22K 1/16W	[M]
R738	ERJ3GEYJ472V	4.7K 1/16W	[M]
R739	ERJ3GEYJ104V	100K 1/16W	[M]
R740	ERJ3GEYJ153V	15K 1/16W	[M]
R750	ERDS1FVJ471T	470 1/2W	[M]
R751	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R757	D0GB122JA019	1.2K 1/16W	[M]

R757	D0GB122JA010	1.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R758	ERJ3GEYJ103V	10K 1/16W	[M]
R759	ERJ3GEYJ331V	330 1/16W	[M]
R760	ERJ3GEYJ471V	470 1/16W	[M]
R761	ERJ3GEYJ182V	1.8K 1/16W	[M]
R762	D0GB272JA002	2.7K 1/16W	[M]
R763	D0GB272JA002	2.7K 1/16W	[M]
R764	ERJ3GEYJ472V	4.7K 1/16W	[M]
R765	D0GB151JA008	150 1/16W	[M]
R766	ERJ3GEYJ561V	560 1/16W	[M]
R767	D0GB272JA002	2.7K 1/16W	[M]
R768	D0GB151JA008	150 1/16W	[M]
R769	D0GB821JA002	820 1/16W	[M]
R770	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R771	ERJ3GEYJ472V	4.7K 1/16W	[M]
R772	ERJ3GEYJ471V	470 1/16W	[M]
R773	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R774	D0GB1R0JA002	1 1/16W	[M]
R775	D0GB1R0JA002	1 1/16W	[M]
R776	D0GB1R0JA002	1 1/16W	[M]
R777	D0GB1R0JA002	1 1/16W	[M]
R778	D0GB1R0JA002	1 1/16W	[M]
R779	ERJ3GEY0R00V	0 1/16W	[M]
R780	ERJ3GEY0R00V	0 1/16W	[M]
R801	ERJ3GEYJ681V	680 1/16W	[M]
R802	ERJ3GEYJ473V	47K 1/16W	[M]
R803	ERJ3GEYJ471V	470 1/16W	[M]
R804	ERJ3GEYJ223V	22K 1/16W	[M]
R805	ERJ3GEYJ103V	10K 1/16W	[M]
R807	ERJ3GEYJ103V	10K 1/16W	[M]
R808	ERJ3GEYJ221V	220 1/16W	[M]
R809	ERJ3GEYJ221V	220 1/16W	[M]
R810	ERJ3GEYJ221V	220 1/16W	[M]
R811	ERJ3GEYJ221V	220 1/16W	[M]
R812	ERJ3GEYJ221V	220 1/16W	[M]
R813	ERJ3GEYJ221V	220 1/16W	[M]
R814	ERJ3GEYJ103V	10K 1/16W	[M]
R815	ERJ3GEYJ102V	1K 1/16W	[M]
R817	ERJ3GEYJ221V	220 1/16W	[M]
R818	ERJ3GEYJ221V	220 1/16W	[M]
R819	ERJ3GEYJ221V	220 1/16W	[M]
R820	ERJ3GEYJ221V	220 1/16W	[M]
R821	ERJ3GEYJ221V	220 1/16W	[M]
R822	ERJ3GEYJ221V	220 1/16W	[M]
R823	ERJ3GEYJ221V	220 1/16W	[M]
R824	ERJ3GEYJ221V	220 1/16W	[M]
R825	ERJ3GEYJ221V	220 1/16W	[M]
R826	ERJ3GEYJ103V	10K 1/16W	[M]
R827	ERJ3GEYJ103V	10K 1/16W	[M]
R828	ERJ3GEYJ331V	330 1/16W	[M]
R829	ERJ3GEYJ681V	680 1/16W	[M]
R830	ERJ3GEYJ681V	680 1/16W	[M]
R831	ERJ3GEYJ681V	680 1/16W	[M]
R832	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R833	ERJ3GEYJ102V	1K 1/16W	[M]
R834	ERJ3GEYJ102V	1K 1/16W	[M]
R835	ERJ3GEYJ221V	220 1/16W	[M]
R836	ERJ3GEYJ221V	220 1/16W	[M]
R837	ERJ3GEYJ331V	330 1/16W	[M]
R838	ERJ3GEYJ331V	330 1/16W	[M]
R839	ERJ3GEYJ102V	1K 1/16W	[M]
R840	ERJ3GEYJ182V	1.8K 1/16W	[M]
R841	ERJ3GEYJ103V	10K 1/16W	[M]
R842	ERJ3GEYJ102V	1K 1/16W	[M]
R843	ERJ3GEYJ102V	1K 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEY0R00V	0 1/16W	[M]
R846	ERJ3GEYJ223V	22K 1/16W	[M]
R847	ERJ3GEYJ223V	22K 1/16W	[M]
R848	ERJ3GEYJ472V	4.7K 1/16W	[M]
R850	ERJ3GEYJ221V	220 1/16W	[M]
R851	ERJ3GEYJ331V	330 1/16W	[M]
R852	D0GB393JA002	39K 1/16W	[M]
R853	ERJ3GEYJ472V	4.7K 1/16W	[M]
R854	ERJ3GEYJ104V	100K 1/16W	[M]
R855	ERJ3GEYJ331V	330 1/16W	[M]
R856	ERJ3GEYJ331V	330 1/16W	[M]
R857	ERJ3GEYJ331V	330 1/16W	[M]
R858	D0GB272JA002	2.7K 1/16W	[M]
R859	ERJ3GEYJ331V	330 1/16W	[M]
R860	ERJ3GEYJ331V	330 1/16W	[M]
R861	ERJ3GEYJ331V	330 1/16W	[M]
R862	ERJ3GEYJ221V	220 1/16W	[M]
R863	ERJ3GEYJ223V	22K 1/16W	[M]
R864	ERJ3GEYJ223V	22K 1/16W	[M]
R865	ERJ3GEYJ221V	220 1/16W	[M]
R866	ERJ3GEYJ221V	220 1/16W	[M]
R867	ERJ3GEYJ102V	1K 1/16W	[M]
R868	ERJ3GEYJ102V	1K 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	ERJ3GEYJ103V	10K 1/16W	[M]
R871	ERJ3GEYJ103V	10K 1/16W	[M]
R872	ERJ3GEYJ103V	10K 1/16W	[M]
R873	ERJ3GEYJ102V	1K 1/16W	[M]
R874	ERJ3GEYJ102V	1K 1/16W	[M]
R875	ERJ3GEYJ221V	220 1/16W	[M]
R876	ERJ3GEYJ331V	330 1/16W	[M]
R877	ERJ3GEYJ331V	330 1/16W	[M]
R878	ERJ3GEYJ221V	220 1/16W	[M]
R879	ERJ3GEYJ221V	220 1/16W	[M]
R880	ERJ3GEYJ221V	220 1/16W	[M]
R881	ERJ3GEYJ221V	220 1/16W	[M]
R882	D0GB101JA002	100 1/16W	[M]
R883	ERJ3GEYJ221V	220 1/16W	[M]
R884	ERJ3GEYJ182V	1.8K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R887	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R888	D0GB821JA002	820 1/16W	[M]
R889	ERJ3GEYJ103V	10K 1/16W	[M]
R890	D0GB101JA002	100 1/16W	[M]
R891	ERJ3GEYJ103V	10K 1/16W	[M]
R892	ERJ3GEYJ102V	1K 1/16W	[M]
R893	ERJ3GEYJ102V	1K 1/16W	[M]
R894	ERJ3GEYJ104V	100K 1/16W	[M]
R895	ERJ3GEYJ102V	1K 1/16W	[M]
R896	D0GB393JA002	39K 1/16W	[M]
R897	ERJ3GEYJ153V	15K 1/16W	[M]
R898	ERJ3GEYJ221V	220 1/16W	[M]
R899	ERJ3GEYJ221V	220 1/16W	[M]
R900	D0GB272JA002	2.7K 1/16W	[M]
R901	ERJ3GEYJ222V	2.2K 1/16W	[M]
R902	ERJ3GEYJ182V	1.8K 1/16W	[M]
R903	D0GB122JA019	1.2K 1/16W	[M]
R904	ERJ3GEYJ102V	1K 1/16W	[M]
R905	ERJ3GEYJ182V	1.8K 1/16W	[M]
R906	ERJ3GEYJ391V	390 1/16W	[M]
R907	ERJ3GEYJ391V	390 1/16W	[M]
R908	ERJ3GEYJ391V	390 1/16W	[M]
R909	ERJ3GEYJ391V	390 1/16W	[M]
R910	ERJ3GEYJ391V	390 1/16W	[M]
R911	D0GB151JA008	150 1/16W	[M]
R912	D0GB151JA008	150 1/16W	[M]
R913	ERJ3GEYJ223V	22K 1/16W	[M]
R914	D0GB273JA002	27K 1/16W	[M]
R915	D0GB332JA002	3.3K 1/16W	[M]
R916	D0GB332JA002	3.3K 1/16W	[M]
R917	D0GB332JA002	3.3K 1/16W	[M]
R918	ERJ3GEYJ391V	390 1/16W	[M]
R919	ERJ3GEYJ391V	390 1/16W	[M]
R920	ERJ3GEYJ391V	390 1/16W	[M]
R921	ERJ3GEYJ391V	390 1/16W	[M]
R922	ERJ3GEYJ102V	1K 1/16W	[M]
R923	ERJ3GEYJ102V	1K 1/16W	[M]
R924	D0GB122JA019	1.2K 1/16W	[M]
R925	ERJ3GEYJ182V	1.8K 1/16W	[M]
R926	ERJ3GEYJ222V	2.2K 1/16W	[M]
R927	D0GB332JA002	3.3K 1/16W	[M]
R928	ERJ3GEYJ223V	22K 1/16W	[M]
R929	ERJ3GEYJ223V	22K 1/16W	[M]
R931	ERJ3GEYJ470V	47 1/16W	[M]
R932	ERJ3GEYJ472V	4.7K 1/16W	[M]
R933	D0GB271JA002	270 1/16W	[M]
R934	D0GB271JA002	270 1/16W	[M]
R935	ERJ3GEYJ391V	390 1/16W	[M]
R936	D0GB271JA002	270 1/16W	[M]
R937	D0GB271JA002	270 1/16W	[M]
R938	ERJ3GEYJ102V	1K 1/16W	[M]
R942	ERJ3GEY0R00V	0 1/16W	[M]
R944	ERJ3GEYJ472V	4.7K 1/16W	[M]
R945	ERJ3GEYJ102V	1K 1/16W	[M]
R946	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R959	D0GB151JA008	150 1/16W	[M]
R960	D0GB151JA008	150 1/16W	[M]
R961	D0GB151JA008	150 1/16W	[M]
R962	D0GB151JA008	150 1/16W	[M]
R963	D0GB151JA008	150 1/16W	[M]
R964	D0GB151JA008	150 1/16W	[M]
R965	ERJ3GEYD750V	75 1/16W	[M]
R966	ERJ3GEYD750V	75 1/16W	[M]
R967	ERJ3GEYD750V	75 1/16W	[M]
R968	ERJ3GEYD750V	75 1/16W	[M]
R969	ERJ3GEYD750V	75 1/16W	[M]
R970	ERJ3GEYJ471V	470 1/16W	[M]
R971	ERJ3GEYD750V	75 1/16W	[M]
R972	ERJ3GEYJ471V	470 1/16W	[M]
R973	D0GB333JA002	33K 1/16W	[M]
R974	D0GB562JA002	5.6K 1/16W	[M]
R975	ERJ3GEYJ103V	10K 1/16W	[M]
R976	ERJ3GEYJ471V	470 1/16W	[M]
R977	ERJ3GEYJ103V	10K 1/16W	[M]
R978	D0GB683JA002	68K 1/16W	[M]
R979	ERJ3GEYJ394V	390K 1/16W	[M]
R2011	J0JBC0000015	INDUCTOR	[M]
R2012	D0GB752JA002	7.5K 1/16W	[M]
R2013	J0JBC0000015	INDUCTOR	[M]
R2014	ERJ3GEYJ223V	22K 1/16W	[M]
R2015	J0JBC0000015	INDUCTOR	[M]
R2016	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2017	J0JBC0000015	00 1/16W	[M]
R2018	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2021	ERJ3GEYJ153V	15K 1/16W	[M]
R2022	ERJ3GEYJ103V	10K 1/16W	[M]
R2023	ERJ3GEYJ153V	15K 1/16W	[M]
R2031	D0GB683JA002	68K 1/16W	[M]
R2032	ERJ3GEYJ102V	1K 1/16W	[M]
R2033	ERJ3RBD153V	15K 3W	[M]
R2041	ERJ3GEYJ473V	47K 1/16W	[M]
R2051	ERJ3RBD392V	3.9K 3W	[M]
R2501	D0GB101JA002	100 1/16W	[M]
R2502	D0GB101JA002	100 1/16W	[M]
R2503	ERJ3GEY0R00V	0 1/16W	[M]
R2504	ERJ14YKR39H	0.39 1/4W	[M]
R2521	D0GF6R8JA017	6.8 1/16W	[M]
R2522	ERJ3GEY0R00V	0 1/16W	[M]
R2523	ERJ3GEY0R00V	0 1/16W	[M]
R2524	ERJ3GEY0R00V	0 1/16W	[M]
R3001	J0JCC0000119	INDUCTOR	[M]
R3002	ERJ3GEYJ103V	10K 1/16W	[M]
R3003	ERJ3GEYJ103V	10K 1/16W	[M]
R3012	ERJ3GEYJ473V	47K 1/16W	[M]
R3013	ERJ3GEYJ330V	33 1/16W	[M]
R3041	D0GB101JA002	100 1/16W	[M]
R3042	D0GB101JA002	100 1/16W	[M]
R3043	D0GB101JA002	100 1/16W	[M]
R3101	ERJ3RBD153V	15K 3W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3102	ERJ3RBD202V	2K 3W	[M]
R3103	ERJ3RBD223V	22K 3W	[M]
R3104	ERJ3RBD222V	2.2K 3W	[M]
R3105	ERJ3RBD152V	1.5K 3W	[M]
R3111	ERJ3RED620V	62 3W	[M]
R3112	ERJ3RED150V	15 3W	[M]
R3116	ERJ3RED620V	62 3W	[M]
R3117	ERJ3RED130V	13 3W	[M]
R3121	ERJ3RBD101V	100 3W	[M]
R3122	ERJ3RED120V	12 3W	[M]
R3126	ERJ3RED560V	56 3W	[M]
R3131	ERJ3RED560V	56 3W	[M]
R4213	ERJ3GEYJ470V	47 1/16W	[M]
R5101	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5111	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5112	ERJ12YJ270H	27 1/2W	[M]
R5113	ERJ3GEYJ473V	47K 1/16W	[M]
R5114	ERJ3GEYJ223V	22K 1/16W	[M]
R5115	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5116	ERJ12YJ270H	27 1/2W	[M]
R5117	ERJ3GEYJ473V	47K 1/16W	[M]
R5121	D0GB560JA002	56 1/16W	[M]
R5122	D0GB560JA002	56 1/16W	[M]
R5123	D0GB560JA002	56 1/16W	[M]
R5124	D0GB560JA002	56 1/16W	[M]
R5125	D0GB560JA002	56 1/16W	[M]
R5126	ERJ3GEYJ102V	1K 1/16W	[M]
R5127	D0GB560JA002	56 1/16W	[M]
R5201	ERJ3GEY0R00V	0 1/16W	[M]
R5202	ERJ3GEY0R00V	0 1/16W	[M]
R5221	ERJ3GEY0R00V	0 1/16W	[M]
R5222	ERJ3GEYJ102V	1K 1/16W	[M]
R5223	ERJ3GEYJ331V	330 1/16W	[M]
R5225	ERJ3GEY0R00V	0 1/16W	[M]
R5226	ERJ3GEYJ102V	1K 1/16W	[M]
R5227	ERJ3GEYJ331V	330 1/16W	[M]
R5231	J0JCC0000119	INDUCTOR	[M]
R5232	J0JCC0000119	INDUCTOR	[M]
R5233	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5234	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6201	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6203	ERJ3GEY0R00V	0 1/16W	[M]
R6261	ERJ3GEYJ103V	10K 1/16W	[M]
R6311	ERJ3GEYJ103V	10K 1/16W	[M]
R6312	ERJ3GEYJ103V	10K 1/16W	[M]
R6351	D0GB101JA002	100 1/16W	[M]
R6562	ERJ3GEYJ221V	220 1/16W	[M]
R6563	ERJ3GEYJ103V	10K 1/16W	[M]
R6564	D0GB100JA002	10 1/16W	[M]
R6565	ERJ3GEYJ470V	47 1/16W	[M]
K2041	ERJ3GEY0R00V	0 1/16W	[M]
K2501	ERJ3GEY0R00V	0 1/16W	[M]
K2502	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
K2522	ERJ3GEY0R00V	0 1/16W	[M]
K3011	ERJ6GEY0R00V	0 1/10W	[M]
K3012	ERJ3GEY0R00V	0 1/16W	[M]
K3013	ERJ3GEY0R00V	0 1/16W	[M]
K3014	ERJ3GEY0R00V	0 1/16W	[M]
K3015	ERJ3GEY0R00V	0 1/16W	[M]
K3016	ERJ3GEY0R00V	0 1/16W	[M]
K3017	ERJ3GEY0R00V	0 1/16W	[M]
K3111	ERJ3GEY0R00V	0 1/16W	[M]
K3116	ERJ3GEY0R00V	0 1/16W	[M]
K3121	ERJ3GEY0R00V	0 1/16W	[M]
K3126	ERJ3GEY0R00V	0 1/16W	[M]
K3131	ERJ3GEY0R00V	0 1/16W	[M]
K5201	ERJ3GEY0R00V	0 1/16W	[M]
K5202	ERJ3GEY0R00V	0 1/16W	[M]
K5203	ERJ3GEY0R00V	0 1/16W	[M]
K5204	ERJ3GEY0R00V	0 1/16W	[M]
K6253	ERJ6GEY0R00V	0 1/10W	[M]
K6254	ERJ3GEY0R00V	0 1/16W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
K6302	ERJ3GEY0R00V	0 1/16W	[M]
RA2025	EXBV4V473JV	47K 1/16W	[M]
RA2501	EXBV4V103JV	10K 1/16W	[M]
RA2521	EXBV8V473JV	47K 1/16W	[M]
RA3001	EXBV8V820JV	82 1/16W	[M]
RA3002	EXBV8V820JV	82 1/16W	[M]
RA3003	EXBV8V820JV	82 1/16W	[M]
RA3004	EXBV8V820JV	82 1/16W	[M]
RA3005	EXBV4V220JV	22 1/16W	[M]
RA3006	EXBV8V820JV	82 1/16W	[M]
RA3007	EXBV8V820JV	82 1/16W	[M]
RA3008	EXBV8V820JV	82 1/16W	[M]
RA3009	EXBV8V820JV	82 1/16W	[M]
RA3010	EXBV8V820JV	82 1/16W	[M]
RA3011	EXBV8V820JV	82 1/16W	[M]
RA3012	EXBV8V820JV	82 1/16W	[M]
RA3025	EXBV4V102JV	1K 1/16W	[M]
RA3041	EXBV4V101JV	100 1/16W	[M]
RA3042	EXBV4V101JV	100 1/16W	[M]
RA5121	EXBV8V560JV	56 1/16W	[M]
RA5122	EXBV4V560JV	56 1/16W	[M]
RA5123	EXBV4V560JV	56 1/16W	[M]
RA6201	EXBV4V472JV	4.7K 1/16W	[M]
RA6261	EXBV4V103JV	10K 1/16W	[M]
RA6351	EXBV4V472JV	4.7K 1/16W	[M]
		CAPACITORS	
C4	ECJ1VB1H103K	0.01 50V	[M]
C5	ECEA1EKA330B	33 25V	[M]
C7	ECEA1CKA100B	10 16V	[M]
C8	EEUFC0J821B	820P 6.3V	[M]
C9	ECA1EM221B	220 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C10	ECUVNA105KBV	1 10V	[M]
C11	ECUVNA105KBV	1 10V	[M]
C12	ECEA0JKA221B	220 6.3V	[M]
C13	ECUVNA105KBV	1 10V	[M]
C14	ECUVNA105KBV	1 10V	[M]
C15	ECA1EM221B	220 25V	[M]
C16	EEUFC0J821B	820P 6.3V	[M]
C17	ECEA1CKA100B	10 16V	[M]
C18	ECUVNA105KBV	1 10V	[M]
C21	ECEA1AKA101B	100 10V	[M]
C22	ECUV1C104KBV	0.1 16V	[M]
C25	ECUVNA105KBV	1 10V	[M]
C26	ECEA0JKA221B	220 6.3V	[M]
C27	ECUVNA105KBV	1 10V	[M]
C28	ECEA0JKA221B	220 6.3V	[M]
C29	ECUVNA105KBV	1 10V	[M]
C30	ECEA1AKA101B	100 10V	[M]
C31	ECUV1H104KBV	0.1 50V	[M]
C32	ECUV1H104KBV	0.1 50V	[M]
C33	ECJ1VB1H681K	680P 50V	[M]
C34	ECJ1VB1H681K	680P 50V	[M]
C40	ECJ1VB1E103K	0.01 25V	[M]
C41	ECJ1VB1E103K	0.01 25V	[M]
C50	ECA1AAD221XI	220 10V	[M]
C51	ECA1CAD470XI	47 16V	[M]
C52	ECA1CAD470XI	47 16V	[M]
C53	ECJ1VB1H103K	0.01 50V	[M]
C54	ECJ1VC1H220J	22P 50V	[M]
C55	ECA1CAD470XI	47 16V	[M]
C56	ECJ1VB1H103K	0.01 50V	[M]
C57	ECA1CAD470XI	47 16V	[M]
C58	ECJ1VB1H103K	0.01 50V	[M]
C59	ECJ1VB1H103K	0.01 50V	[M]
C60	ECA1AM102B	1000 10V	[M]
C61	ECEA0JKA101B	100 6.3V	[M]
C62	ECA1AM102B	1000 10V	[M]
C63	ECEA0JKA101B	100 6.3V	[M]
C64	ECA0JM102B	1000 6.3V	[M]
C65	ECEA0JKA101B	100 6.3V	[M]
C66	ECEA0JKA331B	330 6.3V	[M]
C67	ECEA0JKA331B	330 6.3V	[M]
C68	ECEA1CKA470B	47 16V	[M]
C69	ECUV1C104KBV	0.1 16V	[M]
C72	ECUVNA105KBV	1 10V	[M]
C73	ECUVNA105KBV	1 10V	[M]
C74	ECJ1VB1H103K	0.01 50V	[M]
C75	F1J1A105A017	1 10V	[M]
C76	F1J1A105A017	1 10V	[M]
C77	ECJ1VB1H103K	0.01 50V	[M]
C78	ECA1CAD101XI	100 16V	[M]
C79	ECEA0JKS331I	330 6.3V	[M]
C80	ECUV1H101JCV	100P 50V	[M]
C81	ECUV1H101JCV	100P 50V	[M]
C82	ECUV1H101JCV	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C83	ECUV1H101JCV	100P 50V	[M]
C84	ECUV1H101JCV	100P 50V	[M]
C85	ECUV1H101JCV	100P 50V	[M]
C86	F1J1A105A017	1 10V	[M]
C87	F1J1A105A017	1 10V	[M]
C101	ECJ1VB1E103K	0.01 25V	[M]
C102	ECEA1CKA101B	100 16V	[M]
C103	ECJ1VB1E103K	0.01 25V	[M]
C104	ECJ1VB1H102K	1000P 50V	[M]
C105	ECJ1VB1H102K	1000P 50V	[M]
C106	ECJ1VB1E103K	0.01 25V	[M]
C107	F1H1E473A062	0.047 25V	[M]
C108	F1H1H8R0A787	8.0P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECJ1VB1E103K	0.01 25V	[M]
C111	ECEA1HKA4R7B	4.7 50V	[M]
C112	ECJ1VB1E103K	0.01 25V	[M]
C113	ECJ1VB1H102K	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECJ1VB1E103K	0.01 25V	[M]
C118	ECJ1VB1E103K	0.01 25V	[M]
C119	F0A2A561A015	560P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECJ1VC1H101K	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	1 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]
C128	ERJ3GEY0R00V	0 1/16W	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECUV1H101JCV	100P 50V	[M]
C132	ECJ1VB1H102K	1000P 50V	[M]
C133	ECJ1VC1H270J	27P 50V	[M]
C134	ECJ1VC1H270J	27P 50V	[M]
C136	ECJ1VB1H102K	1000P 50V	[M]
C137	ECJ1VB1H332K	3300P 50V	[M]
C138	ECJ1VB1E103K	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECJ1VB1H472K	4700P 50V	[M]
C144	ECJ1VB1H472K	4700P 50V	[M]
C147	ECJ1VB1H102K	1000P 50V	[M]
C148	ECJ1VB1E103K	0.01 25V	[M]
C149	ECUV1C104ZFV	0.1 16V	[M]
C150	ECJ1VB1H103K	0.01 50V	[M]
C201	ECJ1VB1H221K	220P 50V	[M]
C202	ECJ1VB1H221K	220P 50V	[M]
C203	ECA1HAD4R7XI	4.7 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C204	ECJ1VC1H101K	100P 50V	[M]
C205	ECA1HAD3R3XI	3.3 50V	[M]
C206	ECJ1VC1H101K	100P 50V	[M]
C207	ECJ1VB1H332K	3300P 50V	[M]
C209	ECA1CAD100XI	10 16V	[M]
C210	ECJ1VC1H101K	100P 50V	[M]
C211	ECUV1H470JCV	47P 50V	[M]
C212	ECA1CAD100XI	10 16V	[M]
C213	ECA1CAD100XI	10 16V	[M]
C214	ECJ1VC1H101K	100P 50V	[M]
C216	ECJ1VC1H101K	100P 50V	[M]
C217	ECA1CAD100XI	10 16V	[M]
C218	ECUVNA105KBV	1 10V	[M]
C219	ECA1CAD100XI	10 16V	[M]
C220	ECJ1VB1H471K	470P 50V	[M]
C221	ECJ1VC1H101K	100P 50V	[M]
C222	ECA1CAD100XI	10 16V	[M]
C223	ECJ1VB1H471K	470P 50V	[M]
C224	ECJ1VB1H471K	470P 50V	[M]
C225	ECUVNA105KBV	1 10V	[M]
C226	ECJ1VC1H101K	100P 50V	[M]
C227	ECJ1VC1H330J	33P 50V	[M]
C228	ECA1HAD4R7XI	4.7 50V	[M]
C235	ECA1HAD4R7XI	4.7 50V	[M]
C237	ECJ1VB1H332K	3300P 50V	[M]
C238	ECJ2VB1H153K	0.015 50V	[M]
C239	ECA1HADR33XI	0.33 50V	[M]
C240	ECUVNA105KBV	1 10V	[M]
C241	ECUVNA105KBV	1 10V	[M]
C242	ECA1HAD010XI	1 50V	[M]
C243	ECJ1VC1H101K	100P 50V	[M]
C244	ECA1CAD100XI	10 16V	[M]
C245	ECJ1VC1H101K	100P 50V	[M]
C246	ECUV1H470JCV	47P 50V	[M]
C248	ECJ1VB1H102K	1000P 50V	[M]
C249	ECA1HADR47XI	0.47 50V	[M]
C250	ECJ1VC1H101K	100P 50V	[M]
C251	ECJ1VC1H330J	33P 50V	[M]
C252	ECA1CAD100XI	10 16V	[M]
C253	ECJ1VB1C563K	0.056 16V	[M]
C254	ECJ1VB1C563K	0.056 16V	[M]
C255	ECJ1VC1H101K	100P 50V	[M]
C256	ECA1HAD4R7XI	4.7 50V	[M]
C257	ECA1CAD100XI	10 16V	[M]
C258	ECJ1VC1H330J	33P 50V	[M]
C259	ECA1CAD100XI	10 16V	[M]
C260	ECUVNA105KBV	1 10V	[M]
C263	ECA1CAD100XI	10 16V	[M]
C265	ECUVNA105KBV	1 10V	[M]
C267	ECJ1VC1H101K	100P 50V	[M]
C268	ECJ1VC1H470J	47P 50V	[M]
C269	RCE1HKSR15I	0.15P 50V	[M]
C270	ECJ1VB1H682K	6800P 50V	[M]
C271	ECA1CAD100XI	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C272	**ECUVNA105KBV**	**1 10V**	**[M]**
C273	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C274	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C301	**ECEA1HKN4R7B**	**4.7 50V**	**[M]**
C303	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C304	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C305	**ECA1CAD100XI**	**10 16V**	**[M]**
C306	**ECUVNA105KBV**	**1 10V**	**[M]**
C307	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C308	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C309	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C310	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C311	**ECUVNA105KBV**	**1 10V**	**[M]**
C312	**ECJ1VC1H330J**	**33P 50V**	**[M]**
C313	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C314	**ECA1CAD100XI**	**10 16V**	**[M]**
C315	**ECUVNA105KBV**	**1 10V**	**[M]**
C316	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C317	**ECUVNA105KBV**	**1 10V**	**[M]**
C318	**ECUVNA105KBV**	**1 10V**	**[M]**
C325	**ECUVNA105KBV**	**1 10V**	**[M]**
C326	**ECA1CAD100XI**	**10 16V**	**[M]**
C327	**ECUVNA105KBV**	**1 10V**	**[M]**
C328	**ECUVNA105KBV**	**1 10V**	**[M]**
C329	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C330	**ECA1CAD100XI**	**10 16V**	**[M]**
C331	**ECA1HAD0R1XI**	**0.1 50V**	**[M]**
C332	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C333	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C334	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C335	**ECA1CAD100XI**	**10 16V**	**[M]**
C336	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C337	**ECJ1VC1H330J**	**33P 50V**	**[M]**
C338	**ECEA1HKAR22I**	**0.22 50V**	**[M]**
C339	**ECUV1H470JCV**	**47P 50V**	**[M]**
C340	**ECUV1H470JCV**	**47P 50V**	**[M]**
C341	**ECUV1H470JCV**	**47P 50V**	**[M]**
C342	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C344	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C346	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C347	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**
C348	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C349	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C350	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C353	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C354	**ECUV1H470JCV**	**47P 50V**	**[M]**
C355	**ECUV1H470JCV**	**47P 50V**	**[M]**
C356	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C357	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C358	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**
C359	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**
C360	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**
C361	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**
C362	**ECA1HAD4R7XI**	**4.7 50V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C363	ECA1HAD4R7XI	4.7 50V	[M]
C364	ECA1HAD4R7XI	4.7 50V	[M]
C365	ECA1HAD4R7XI	4.7 50V	[M]
C366	ECJ1VB1E103K	0.01 25V	[M]
C367	ECJ1VB1E103K	0.01 25V	[M]
C368	ECA1HAD4R7XI	4.7 50V	[M]
C376	ECJ1VB1E103K	0.01 25V	[M]
C377	ECJ1VB1E103K	0.01 25V	[M]
C378	F1J1A105A017	1 10V	[M]
C379	F1J1A105A017	1 10V	[M]
C380	ECJ1VB1H102K	1000P 50V	[M]
C401	ECJ1VB1H221K	220P 50V	[M]
C402	ECJ1VB1H221K	220P 50V	[M]
C403	ECA1HAD4R7XI	4.7 50V	[M]
C404	ECJ1VC1H101K	100P 50V	[M]
C405	ECA1HAD3R3XI	3.3 50V	[M]
C406	ECJ1VC1H101K	100P 50V	[M]
C407	ECJ1VB1H332K	3300P 50V	[M]
C409	ECA1CAD100XI	10 16V	[M]
C410	ECJ1VC1H101K	100P 50V	[M]
C411	ECUV1H470JCV	47P 50V	[M]
C412	ECA1CAD100XI	10 16V	[M]
C413	ECA1CAD100XI	10 16V	[M]
C414	ECJ1VC1H101K	100P 50V	[M]
C416	ECJ1VC1H101K	100P 50V	[M]
C417	ECA1CAD100XI	10 16V	[M]
C418	ECUVNA105KBV	1 10V	[M]
C419	ECA1CAD100XI	10 16V	[M]
C420	ECJ1VB1H471K	470P 50V	[M]
C421	ECJ1VC1H101K	100P 50V	[M]
C422	ECA1CAD100XI	10 16V	[M]
C423	ECJ1VB1H471K	470P 50V	[M]
C424	ECJ1VB1H471K	470P 50V	[M]
C425	ECUVNA105KBV	1 10V	[M]
C426	ECJ1VC1H101K	100P 50V	[M]
C427	ECJ1VC1H330J	33P 50V	[M]
C428	ECA1HAD4R7XI	4.7 50V	[M]
C435	ECA1HAD4R7XI	4.7 50V	[M]
C437	ECJ1VB1H332K	3300P 50V	[M]
C438	ECJ2VB1H153K	0.015 50V	[M]
C439	ECA1HADR33XI	0.33 50V	[M]
C440	ECUVNA105KBV	1 10V	[M]
C441	ECUVNA105KBV	1 10V	[M]
C442	ECA1HAD010XI	1 50V	[M]
C443	ECJ1VC1H101K	100P 50V	[M]
C444	ECA1CAD100XI	10 16V	[M]
C445	ECJ1VC1H101K	100P 50V	[M]
C446	ECUV1H470JCV	47P 50V	[M]
C448	ECJ1VB1H102K	1000P 50V	[M]
C449	ECA1HADR47XI	0.47 50V	[M]
C450	ECJ1VC1H101K	100P 50V	[M]
C451	ECJ1VC1H330J	33P 50V	[M]
C452	ECA1CAD100XI	10 16V	[M]
C453	ECJ1VB1C563K	0.056 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C454	ECJ1VB1C563K	0.056 16V	[M]
C455	ECJ1VC1H101K	100P 50V	[M]
C456	ECA1HAD4R7XI	4.7 50V	[M]
C457	ECA1CAD100XI	10 16V	[M]
C458	ECJ1VC1H330J	33P 50V	[M]
C459	ECA1CAD100XI	10 16V	[M]
C460	ECUVNA105KBV	1 10V	[M]
C463	ECA1CAD100XI	10 16V	[M]
C465	ECUVNA105KBV	1 10V	[M]
C467	ECJ1VC1H101K	100P 50V	[M]
C468	ECJ1VC1H470J	47P 50V	[M]
C469	RCE1HKSR15I	0.15P 50V	[M]
C470	ECJ1VB1H682K	6800P 50V	[M]
C471	ECA1CAD100XI	10 16V	[M]
C472	ECUVNA105KBV	1 10V	[M]
C473	ECJ1VC1H101K	100P 50V	[M]
C474	ECJ1VC1H470J	47P 50V	[M]
C600	ECEV1CA100SR	10 16V	[M]
C601	ECJ1VB1H103K	0.01 50V	[M]
C602	ECJ1VB1H103K	0.01 50V	[M]
C603	ECUV1C104KBV	0.1 16V	[M]
C604	ECUV1C104KBV	0.1 16V	[M]
C605	ECJ1VC1H470J	47P 50V	[M]
C606	ECJ1VC1H101K	100P 50V	[M]
C607	ECJ1VC1H101K	100P 50V	[M]
C608	ECUV1C104KBV	0.1 16V	[M]
C609	ECEV0JA470SR	47 6.3V	[M]
C610	ECJ1VC1H101K	100P 50V	[M]
C611	F1H1H121A755	120P 50V	[M]
C612	F1H1A474A025	0.47 10V	[M]
C613	ECJ1VB1H103K	0.01 50V	[M]
C614	ECUV1C104KBV	0.1 16V	[M]
C615	ECEV0JA470SR	47 6.3V	[M]
C616	ECUV1C104KBV	0.1 16V	[M]
C617	ECUV1C104KBV	0.1 16V	[M]
C618	ECUV1C104KBV	0.1 16V	[M]
C619	ECUV1C104KBV	0.1 16V	[M]
C620	ECUV1C104KBV	0.1 16V	[M]
C621	ECEV0JA101SP	100 6.3V	[M]
C622	ECUV1C104KBV	0.1 16V	[M]
C623	ECJ1VC1H220J	22P 50V	[M]
C624	ECJ1VC1H220J	22P 50V	[M]
C625	ECUV1C104KBV	0.1 16V	[M]
C626	ECEV1CA100SR	10 16V	[M]
C627	ECEV1CA100SR	10 16V	[M]
C628	ECUV1C104KBV	0.1 16V	[M]
C629	ECUV1C104KBV	0.1 16V	[M]
C630	ECEV1CA100SR	10 16V	[M]
C631	ECUV1C104KBV	0.1 16V	[M]
C632	ECEV1CA100SR	10 16V	[M]
C633	ECJ1VB1H102K	1000P 50V	[M]
C634	ECJ1VB1H102K	1000P 50V	[M]
C635	ECJ1VC1H470J	47P 50V	[M]
C639	ECJ1VC1H470J	47P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C640	ECUV1C104KBV	0.1 16V	[M]
C641	ECEV1CA100SR	10 16V	[M]
C642	ECJ1VC1H470J	47P 50V	[M]
C643	ECUV1C104KBV	0.1 16V	[M]
C644	ECEV1CA100SR	10 16V	[M]
C645	ECJ1VB1H103K	0.01 50V	[M]
C646	ECJ1VC1H470J	47P 50V	[M]
C647	ECUV1C104KBV	0.1 16V	[M]
C648	ECEV0JA101SP	100 6.3V	[M]
C649	ECEV0JA101SP	100 6.3V	[M]
C650	ECUV1C104KBV	0.1 16V	[M]
C651	ECJ1VB1H222K	2200P 50V	[M]
C652	ECJ1VB1H222K	2200P 50V	[M]
C653	ECEV1CA100SR	10 16V	[M]
C654	ECEV1CA100SR	10 16V	[M]
C655	ECJ1VB1H222K	2200P 50V	[M]
C656	ECJ1VB1H222K	2200P 50V	[M]
C657	ECEV1CA100SR	10 16V	[M]
C658	ECEV1CA100SR	10 16V	[M]
C659	ECJ1VB1H222K	2200P 50V	[M]
C660	ECJ1VB1H222K	2200P 50V	[M]
C661	ECEV1CA100SR	10 16V	[M]
C662	ECEV1CA100SR	10 16V	[M]
C663	ECEV1CA100SR	10 16V	[M]
C664	ECEV1CA100SR	10 16V	[M]
C665	ECJ1VC1H101K	100P 50V	[M]
C666	ECJ1VC1H470J	47P 50V	[M]
C667	ECJ1VB1E103K	0.01 25V	[M]
C668	ECJ1VC1H101K	100P 50V	[M]
C669	ECJ1VC1H101K	100P 50V	[M]
C670	ECEV1CA100SR	10 16V	[M]
C671	ECEV1CA100SR	10 16V	[M]
C672	ECJ1VC1H101K	100P 50V	[M]
C673	ECJ1VC1H470J	47P 50V	[M]
C674	ECJ1VB1E103K	0.01 25V	[M]
C675	ECJ1VB1H103K	0.01 50V	[M]
C676	ECJ1VB1H103K	0.01 50V	[M]
C677	ECEV1CA100SR	10 16V	[M]
C678	ECJ1VB1H103K	0.01 50V	[M]
C679	ECEV1CA100SR	10 16V	[M]
C680	ECEV1CA100SR	10 16V	[M]
C704	ECJ1VB1E103K	0.01 25V	[M]
C729	ECJ1VC1H101K	100P 50V	[M]
C731	ECJ1VB1E103K	0.01 25V	[M]
C732	ECA1CAD100XI	10 16V	[M]
C733	ECUV1H104KBV	0.1 50V	[M]
C734	F1H1C393A089	0.039 16V	[M]
C735	ECUVNA154KBV	0.15 10V	[M]
C736	ECJ1VB1H562K	5600P 50V	[M]
C737	ECUV1H473KBV	0.047 50V	[M]
C739	ECA1CAD470XI	47 16V	[M]
C740	ECA1CAD470XI	47 16V	[M]
C741	ECA1CAD100XI	10 16V	[M]
C742	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C750	**ECA1EM472B**	**4700 25V**	**[M]**
C751	**ECQE1104KF3**	**0.1 100V**	**[M]**
C752	**ECEA1VKS470I**	**47 35V**	**[M]**
C753	**ECA1HM221B**	**220 50V**	**[M]**
C754	**ECA1EM102B**	**1000 25V**	**[M]**
C755	**ECA1HM101B**	**100 50V**	**[M]**
C756	**ECA1JM101B**	**100 63V**	**[M]**
C757	**ECA1EM102B**	**1000 25V**	**[M]**
C758	**ECA1HM101B**	**100 50V**	**[M]**
C759	**ECA1JM101B**	**100 63V**	**[M]**
C760	**ECA1JM101B**	**100 63V**	**[M]**
C761	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C762	**ECA1HM101B**	**100 50V**	**[M]**
C763	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C764	**ECEA1EKA330B**	**33 25V**	**[M]**
C765	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C766	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C767	**ECA1EM101B**	**100 25V**	**[M]**
C768	**ECEA1EKA330B**	**33 25V**	**[M]**
C769	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C770	**ECA1CAD101XI**	**100 16V**	**[M]**
C772	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C773	**ECA1CAD100XI**	**10 16V**	**[M]**
C774	**ECA1EM101B**	**100 25V**	**[M]**
C800	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C801	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C802	**ECEA1AKA220B**	**22 10V**	**[M]**
C803	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C804	**RCE1AM102B**	**02 10V**	**[M]**
C805	**ECEA1HKA2R2B**	**2.2 50V**	**[M]**
C807	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C809	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C810	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C811	**F1H1H223A761**	**0.022 50V**	**[M]**
C812	**F1H1H331A022**	**330P 50V**	**[M]**
C813	**ECEA0JKA470B**	**47 6.3V**	**[M]**
C814	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C815	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C816	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C817	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C818	**ECUV1H561KBV**	**560P 50V**	**[M]**
C819	**ECEA1HKA100B**	**10 50V**	**[M]**
C820	**ECEA1HKA100B**	**10 50V**	**[M]**
C821	**F1H1H331A022**	**330P 50V**	**[M]**
C823	**ECEA1HKN4R7B**	**4.7 50V**	**[M]**
C824	**F1H1H331A022**	**330P 50V**	**[M]**
C825	**F1H1H331A022**	**330P 50V**	**[M]**
C900	**ECUV1H473KBV**	**0.047 50V**	**[M]**
C901	**ECUV1H473KBV**	**0.047 50V**	**[M]**
C902	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C903	**ECEA1VKS220B**	**22 35V**	**[M]**
C904	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C905	**ECEA1VKS220B**	**22 35V**	**[M]**
C907	**ECEA1HKS3R3B**	**3.3 50V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C909	ECJ1VB1H103K	0.01 50V	[M]
C910	ECJ1VC1H390K	39P 50V	[M]
C911	ECEA0JKS101B	100 6.3V	[M]
C912	ECJ1VB1H103K	0.01 50V	[M]
C914	ECUV1H221JCV	220P 50V	[M]
C915	ECUV1H221JCV	220P 50V	[M]
C916	ECUV1H221JCV	220P 50V	[M]
C917	ECUV1H221JCV	220P 50V	[M]
C918	ECEA0JKS470B	47 6.3V	[M]
C919	ECJ1VB1H102K	1000P 50V	[M]
C921	ECJ1VC1H101K	100P 50V	[M]
C922	ECJ1VC1H101K	100P 50V	[M]
C931	ECEA1HKA010B	1 50V	[M]
C950	ECEA1HKA010B	1 50V	[M]
C951	ECEA1HKA010B	1 50V	[M]
C954	ECJ1VB1H103K	0.01 50V	[M]
C955	ECUV1H104KBV	0.1 50V	[M]
C956	ECEA0JKA101B	100 6.3V	[M]
C957	ECUV1H104KBV	0.1 50V	[M]
C958	ECEA0JKA101B	100 6.3V	[M]
C959	ECEA0JKA220B	22 6.3V	[M]
C960	ECEA0JKA101B	100 6.3V	[M]
C961	ECEA0JKA220B	22 6.3V	[M]
C962	ECEA0JKA101B	100 6.3V	[M]
C963	ECEA0JKA220B	22 6.3V	[M]
C964	ECEA0JKA331B	330 6.3V	[M]
C965	ECUVNA105KBV	1 10V	[M]
C2001	F2G0J1010013	100P 6.3V	[M]
C2002	EEVFC0J101P	100P 6.3V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2011	ECUV1C104KBV	0.1 16V	[M]
C2012	ECUV1C104KBV	0.1 16V	[M]
C2015	ECJ1VC1H102J	1000P 50V	[M]
C2016	ECUV1H821JCV	820P 50V	[M]
C2021	ECJ1VB1H472K	4700P 50V	[M]
C2023	ECJ1VC1H102J	1000P 50V	[M]
C2031	ECJ1VF1A105Z	10 10V	[M]
C2032	ECJ1VF1A105Z	10 10V	[M]
C2033	F1H0J1050013	10 6.3V	[M]
C2034	ECJ1VB1H152K	1500P 50V	[M]
C2035	ECJ1VC1H221J	220P 50V	[M]
C2036	ECUV1C104KBV	0.1 16V	[M]
C2037	ECJ1VB1C103K	0.01 16V	[M]
C2051	ECUV1C333KBV	0.033 16V	[M]
C2052	ECJ1VC1H330J	33P 50V	[M]
C2053	ECUVNC104ZFV	0.1 16V	[M]
C2054	ECUVNC104ZFV	0.1 16V	[M]
C2055	ECUVNC104ZFV	0.1 16V	[M]
C2056	ECJ1VB1C103K	0.01 16V	[M]
C2057	ECJ1VC1H181J	180P 50V	[M]
C2058	ECJ1VB1C183K	0.018 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2059	ECJ1VB1H562K	5600P 50V	[M]
C2060	ECUV1C104KBV	0.1 16V	[M]
C2501	ECEV1CA101WP	100 16V	[M]
C2502	ECJ1VF1C104Z	0.1 16V	[M]
C2503	ECJ1VF1C104Z	0.1 16V	[M]
C2504	ECJ1VF1C104Z	0.1 16V	[M]
C2511	ECJ1VB1H103K	0.01 50V	[M]
C2512	ECJ1VB1H103K	0.01 50V	[M]
C2513	ECJ1VB1H103K	0.01 50V	[M]
C2514	ECUV1C104KBV	0.1 16V	[M]
C2521	EEVFC0J101P	100P 6.3V	[M]
C2522	ECEV1CA220WR	22 16V	[M]
C2523	EEVFC0J221P	220P 6.3V	[M]
C2524	ECJ1VF1C104Z	0.1 16V	[M]
C2525	ECJ1VF1C104Z	0.1 16V	[M]
C2526	ECJ1VF1C104Z	0.1 16V	[M]
C2527	ECJ1VF1C104Z	0.1 16V	[M]
C2528	ECJ1VF1C104Z	0.1 16V	[M]
C2529	ECJ1VF1C104Z	0.1 16V	[M]
C3001	F2G0J331A015	330P 6.3V	[M]
C3002	F2G0J331A015	330P 6.3V	[M]
C3003	ECUVNC104ZFV	0.1 16V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	ECUVNC104ZFV	0.1 16V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECUVNC104ZFV	0.1 16V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ERJ3GEYJ331V	330 1/16W	[M]
C3020	ECUVNC104ZFV	0.1 16V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECUVNC104ZFV	0.1 16V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECUVNC104ZFV	0.1 16V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3041	ECJ1VC1H220J	22P 50V	[M]
C3051	ECUVNC104ZFV	0.1 16V	[M]
C3052	ECUVNC104ZFV	0.1 16V	[M]

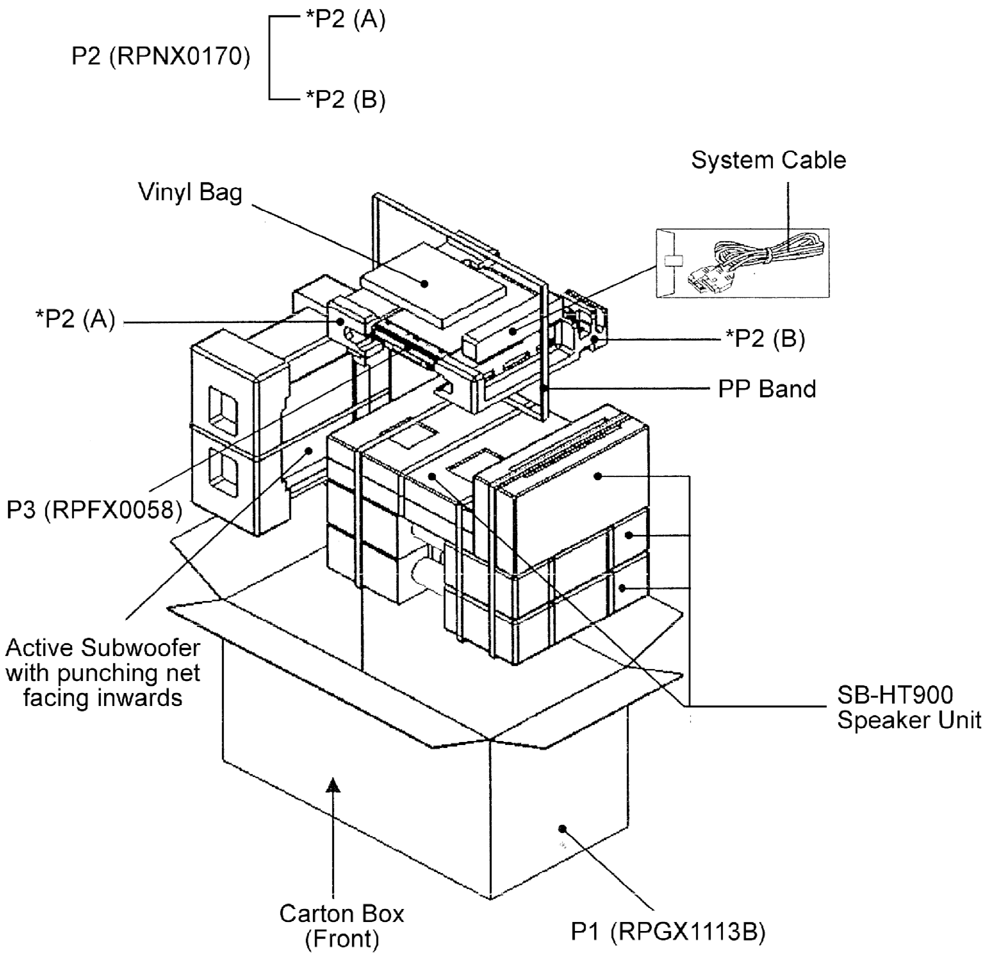
Ref. No.	Part No.	Part Name & Description	Remarks
C3053	ECUVNC104ZFV	0.1 16V	[M]
C3054	ECUVNC104ZFV	0.1 16V	[M]
C3055	ECUVNC104ZFV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNC104ZFV	0.1 16V	[M]
C3101	F2G0J331A015	330P 6.3V	[M]
C3102	ECUVNC104ZFV	0.1 16V	[M]
C3103	ECUVNC104ZFV	0.1 16V	[M]
C3104	ECUVNC104ZFV	0.1 16V	[M]
C3105	F1H0J1050013	10 6.3V	[M]
C3106	F1H0J1050013	10 6.3V	[M]
C3107	ECUVNC104ZFV	0.1 16V	[M]
C4201	F2G0J331A015	330P 6.3V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4211	F3F1A106A001	10 10V	[M]
C4213	F3F1A106A001	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]
C4216	F2G0J101A015	100P 6.3V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4219	F3F1A106A001	10 10V	[M]
C4220	F3F1A106A001	10 10V	[M]
C4222	F2G0J331A015	100P 6.3V	[M]
C5101	ECJ1VF1C104Z	0.1 16V	[M]
C5102	ECJ1VF1C104Z	0.1 16V	[M]
C5103	F3F1A106A001	10 10V	[M]
C5110	ECEV0JA470WR	47 6.3V	[M]
C5111	ECEV0JA470WR	47 6.3V	[M]
C5115	ECEV0JA470WR	47 6.3V	[M]
C5201	ECUVNC104ZFV	0.1 16V	[M]
C5202	ECUVNC104ZFV	0.1 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5221	EEE0JA330WR	33P 6.3V	[M]
C5222	ECUVNC104ZFV	0.1 16V	[M]
C5223	EEE1EA4R7SR	4.7P 25V	[M]
C5225	ECUVNC104ZFV	0.1 16V	[M]
C5226	EEE1EA4R7SR	4.7P 25V	[M]
C5231	ECUV1C104KBV	0.1 16V	[M]
C5232	ECUV1C104KBV	0.1 16V	[M]
C6201	ECUVNC104ZFV	0.1 16V	[M]
C6202	ECJ1VC1H101J	100P 50V	[M]
C6251	ECUV1C104KBV	0.1 16V	[M]
C6252	F1H0J1050013	10 6.3V	[M]
C6253	ECJ1VB1C103K	0.01 16V	[M]
C6255	EEE0JA101SP	100P 6.3V	[M]
C6261	ECUVNC104ZFV	0.1 16V	[M]
C6262	ECUVNC104ZFV	0.1 16V	[M]
C6301	ECUVNC104ZFV	0.1 16V	[M]
C6302	ECUVNC104ZFV	0.1 16V	[M]
C6311	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6312	ECUVNC104ZFV	0.1 16V	[M]
C6351	ECUVNC104ZFV	0.1 16V	[M]
C6561	EEE0JA330WR	33P 6.3V	[M]
C6562	EEE0JA330WR	33P 6.3V	[M]
C6563	ECUVNC104ZFV	0.1 16V	[M]
C6564	ECUVNC104ZFV	0.1 16V	[M]
C6565	ECJ1VC1H150J	15P 50V	[M]
C6566	ECJ1VC1H150J	15P 50V	[M]
C6567	ECUVNC104ZFV	0.1 16V	[M]
C6568	ECJ1VC1H150J	15P 50V	[M]

24.3. Packing Materials & Accessories Parts List

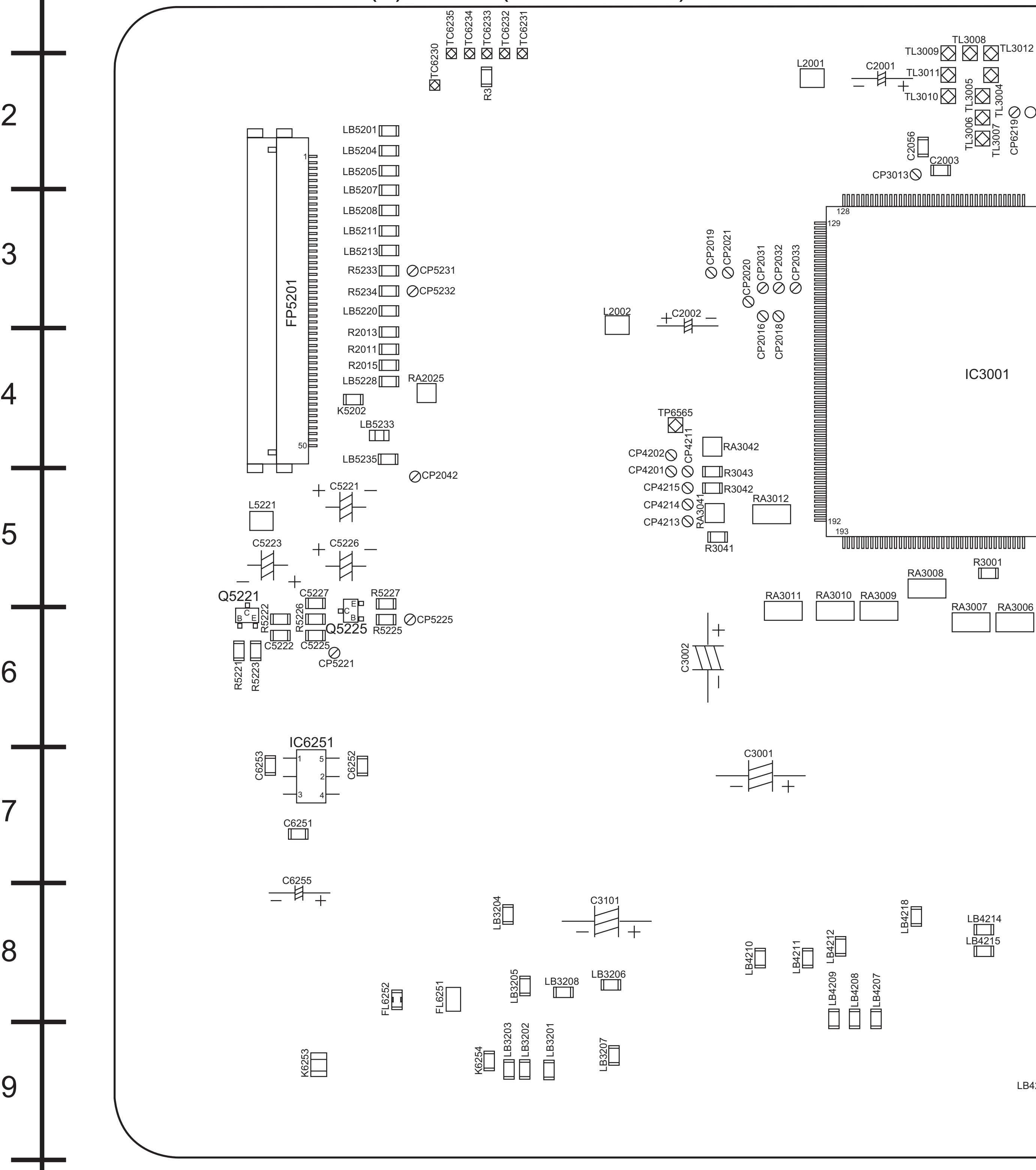
Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1113B	PACKING CASE	[M]
P2	RPNX0170	POLYFOAM	[M]
P3	RPFX0058	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7623X80	REMOTE CONTROL	[M]
A1-1	UR76EC2303B	R/C BATTERY COVER	[M]
A2	RJA0053-3X	AC CORD	[M] ⚠
A3	RQT6756-2B	O/I BOOK (En)	[M]
A4	RSA0007-J	FM ANTENNA	[M]
A5	RJL1P016B15A	VIDEO CABLE	[M]
A6	K1HA25HA0001	SYSTEM CABLE	[M]
A7	N1DADYY00002	AM LOOP ANT	[M]
A8	QWBG002AA	CLAMPER	[M]
A9	XSN5+16FN	SCREW	[M]
A10	K1YZ02000013	DIN ADAPTOR	[M]

24.4. Packaging


P2 (RPNX0170)
*P2 (A)
*P2 (B)
System Cable
Vinyl Bag
*P2 (A)
*P2 (B)
PP Band
P3 (RPFX0058)
Active Subwoofer with punching net facing inwards
SB-HT900 Speaker Unit
Carton Box (Front)
P1 (RPGX1113B)

PRT0306 D/K/J/N/L

B DVD MODULE (2) P.C.B (REPX0386B)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TC6232
TC6231
TC6230
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C2001
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TL3011
TL3010
TL3005
TL3004
TL3006
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CP6219
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LB5208
LB5211
LB5213
R5233
CP5231
R5234
CP5232
LB5220
R2013
R2011
R2015
LB5228
RA2025
K5202
LB5233
LB5235
CP2042
FP5201
1
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128
129
192
193
IC3001
CP2019
CP2021
CP2020
CP2031
CP2032
CP2033
CP2016
CP2018
L2002
C2002
TP6565
CP4211
RA3042
CP4202
CP4201
R3043
CP4215
R3042
CP4214
RA3041
RA3012
CP4213
R3041
C5221
L5221
C5223
C5226
Q5221
C5227
R5227
R5222
R5226
CP5225
Q5225
R5225
C5222
C5225
CP5221
R5221
R5223
RA3008
R3001
RA3011
RA3010
RA3009
RA3007
RA3006
C3002
IC6251
C6253
C6252
C3001
C6251
C6255
LB3204
C3101
LB4218
LB4214
LB4215
LB4210
LB4211
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LB3208
LB3206
FL6252
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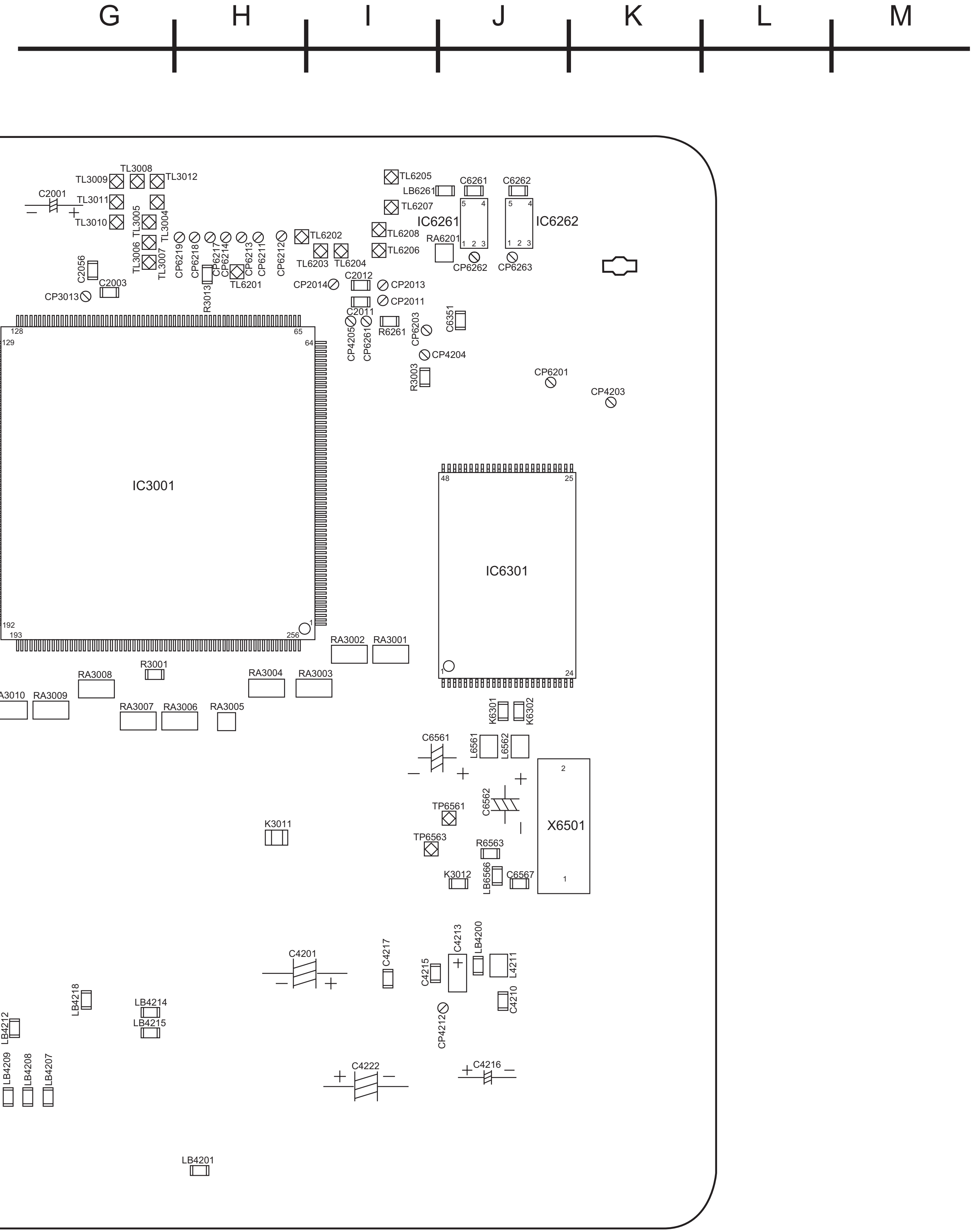
LB3202
LB3201
LB3207
LB4

(SIDE B)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J
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IC6262
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CP6263
CP2014
C2012
CP2013
CP2011
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CP6261
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CP6203
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CP4204
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CP6201
CP4203
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193
256
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RA3002
RA3001
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R3001
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RA3003
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RA3005
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L4211
C4210
CP4212
LB4218
LB4214
LB4215
LB4212
LB4209
LB4208
LB4207
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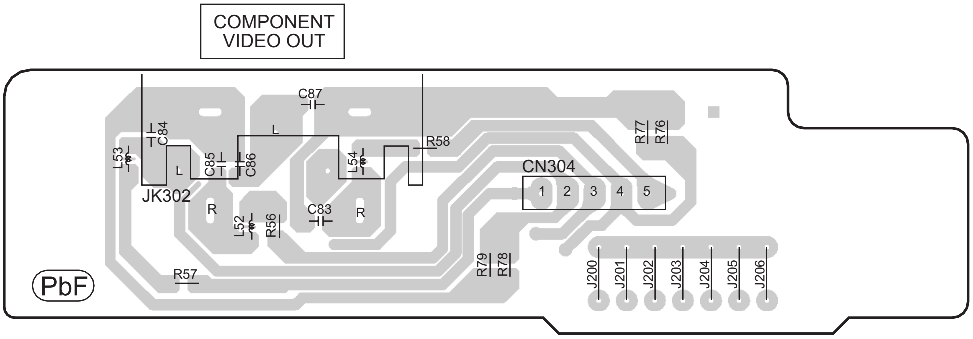
C4216
LB4201

A B C D E F G

1 2 3 4 5 6 7 8 9

E VIDEO OUT P.C.B (REPX0400B-1)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L
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C86
L
JK302
L54
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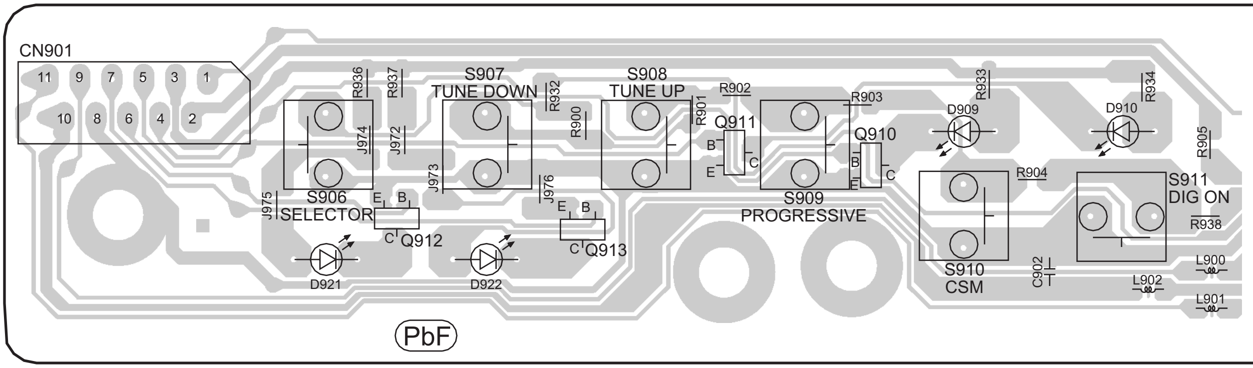
R77
R76
CN304
1 2 3 4 5
R
L52
R56
C83
R
R79
R78
R57
J200
J201
J202
J203
J204
J205
J206
PbF

L HEADPHONE P.C.B (REPX0333D)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10 8 6 4 2
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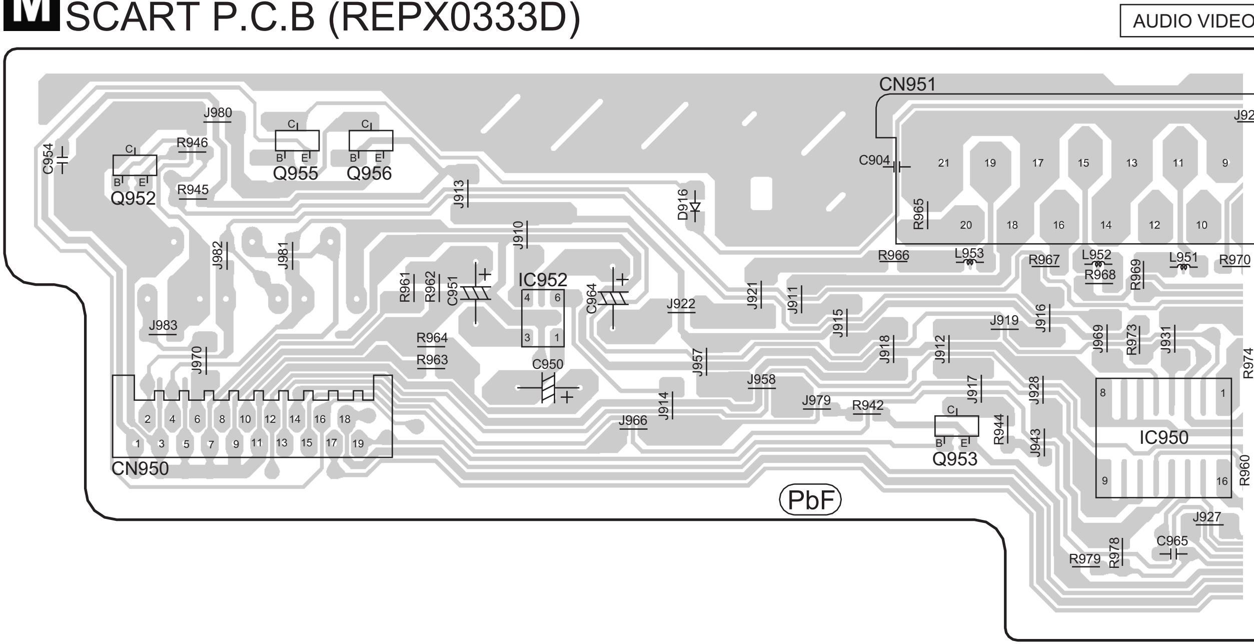
R937
S907
TUNE DOWN
R932
S908
TUNE UP
R902
R903
R933
R934
J974
J972
R900
R901
Q911
Q910
D909
D910
R905
J973
J976
B E C
B E C
R904
S911
DIG ON
J975
S906
SELECTOR
E B
C Q912
E B
C Q913
S909
PROGRESSIVE
R938
D921
D922
S910
CSM
C902
L900
L902
L901
PbF

M SCART P.C.B (REPX0333D)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Q955
Q956
R945
C904
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20 18 16 14 12 10
R965
J913
D916
J910
J982
J981
R966
L953
R967
L952
R968
R969
L951
R970
R961
R962
C951
IC952
4 6
3 1
C964
J922
J921
J911
J915
J916
J919
J983
R964
R963
C950
J957
J918
J912
J969
R973
J931
R974
J970
J958
J917
J928
2 4 6 8 10 12 14 16 18
1 3 5 7 9 11 13 15 17 19
CN950
J914
J966
J979
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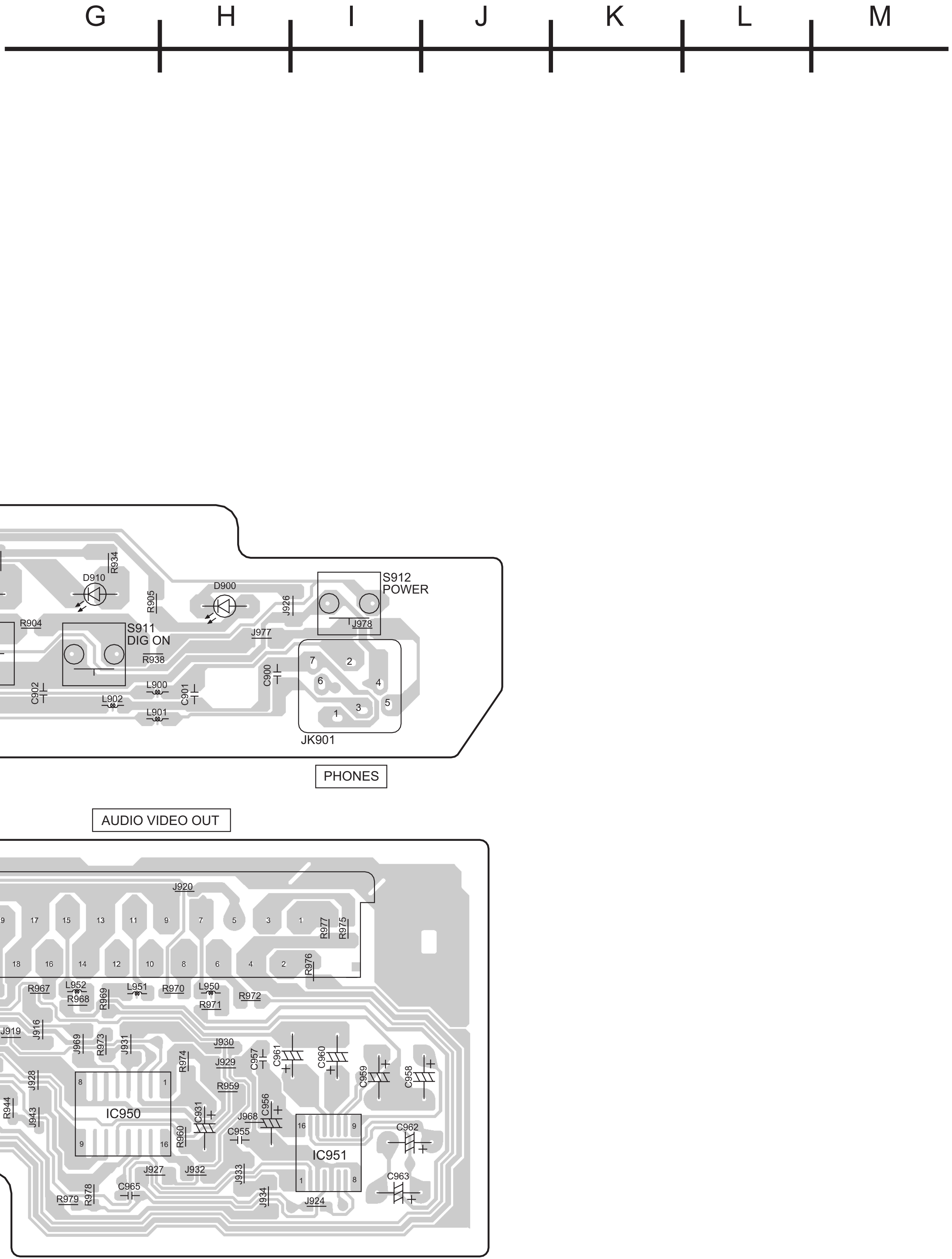
R944
J943
IC950
8 1
9 16
R960
PbF
J927
C965
R979
R978


G
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J
K
L
M
R933
R934
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D900
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POWER
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R904
S911
DIG ON
R938
J977
C900
7
2
6
4
5
3
1
JK901
C902
L902
L900
L901
C901
PHONES
AUDIO VIDEO OUT
J920
19
17
15
13
11
9
7
5
3
1
R977
R975
18
16
14
12
10
8
6
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R976
R967
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R968
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L951
R970
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R972
J919
J916
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R973
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R974
J929
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C960
C959
C958
J928
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J943
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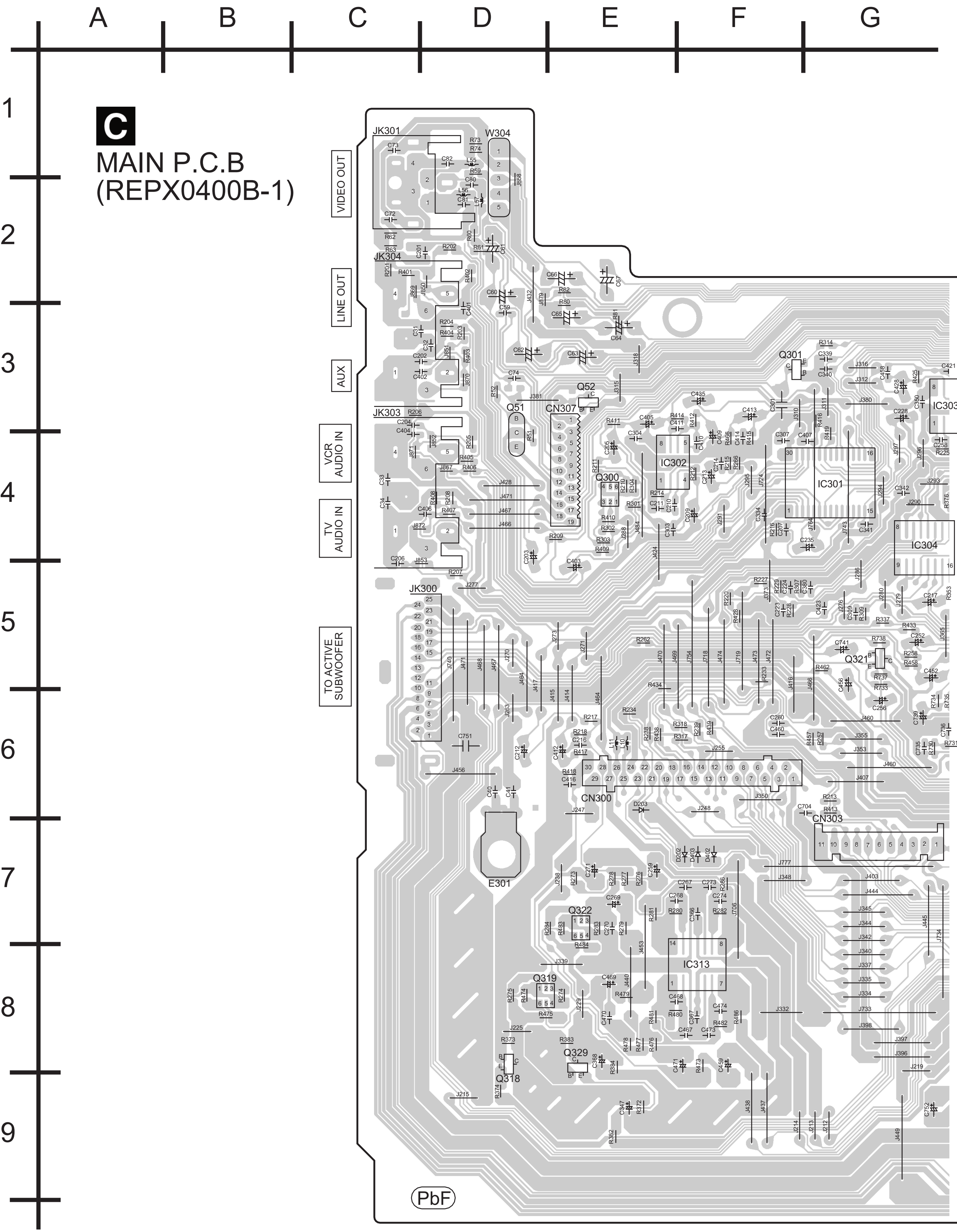
C

MAIN P.C.B
(REPX0400B-1)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JK304
LINE OUT
AUX
JK303
VCR AUDIO IN
TV AUDIO IN
JK300
TO ACTIVE SUBWOOFER
Q51
Q52
CN307
Q300
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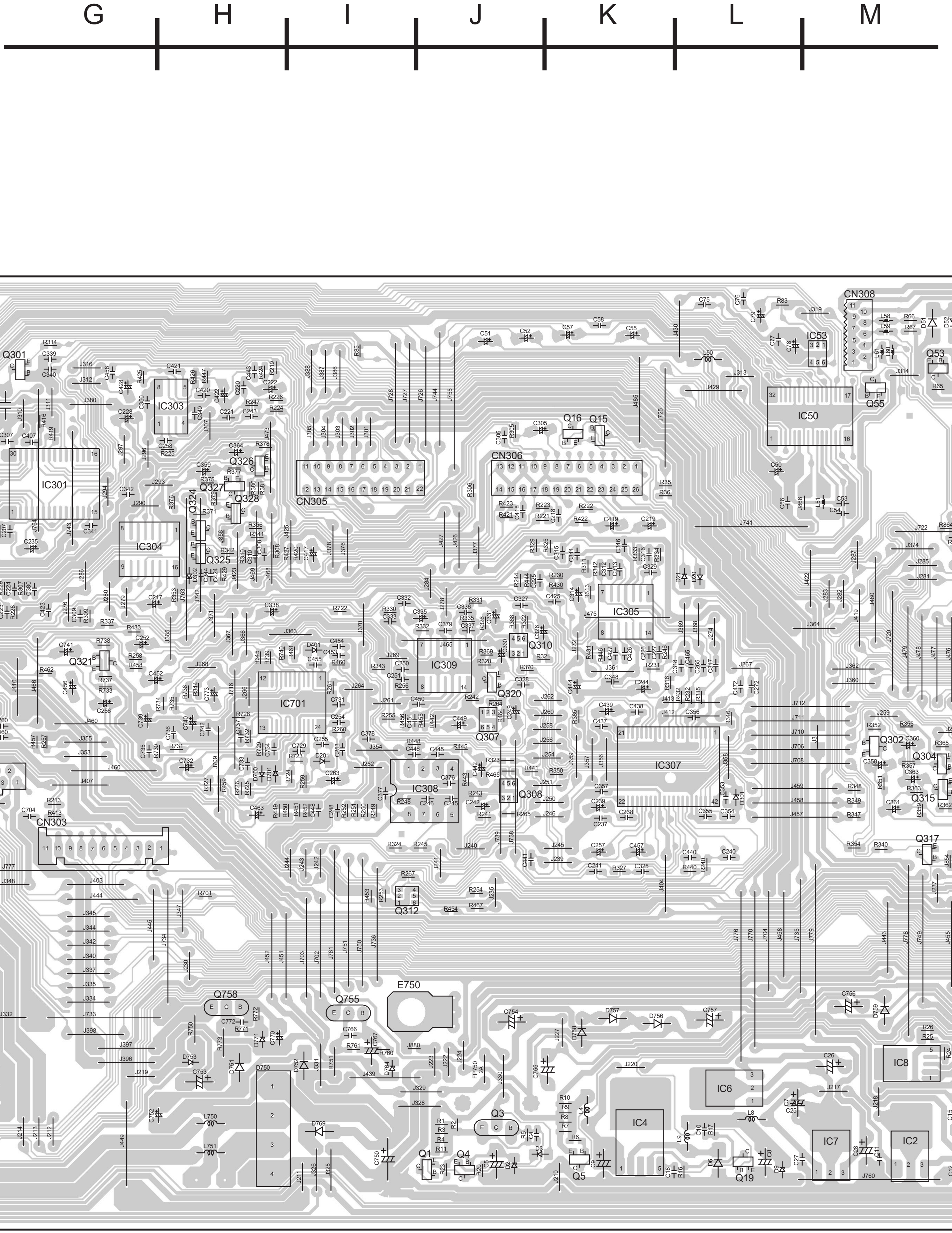
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Q15
Q53
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Q302
Q304
Q307
Q308
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Q312
Q315
Q317
Q320
Q758
Q755
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D750
D751
D752
D753
D756
D757
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D759
D769
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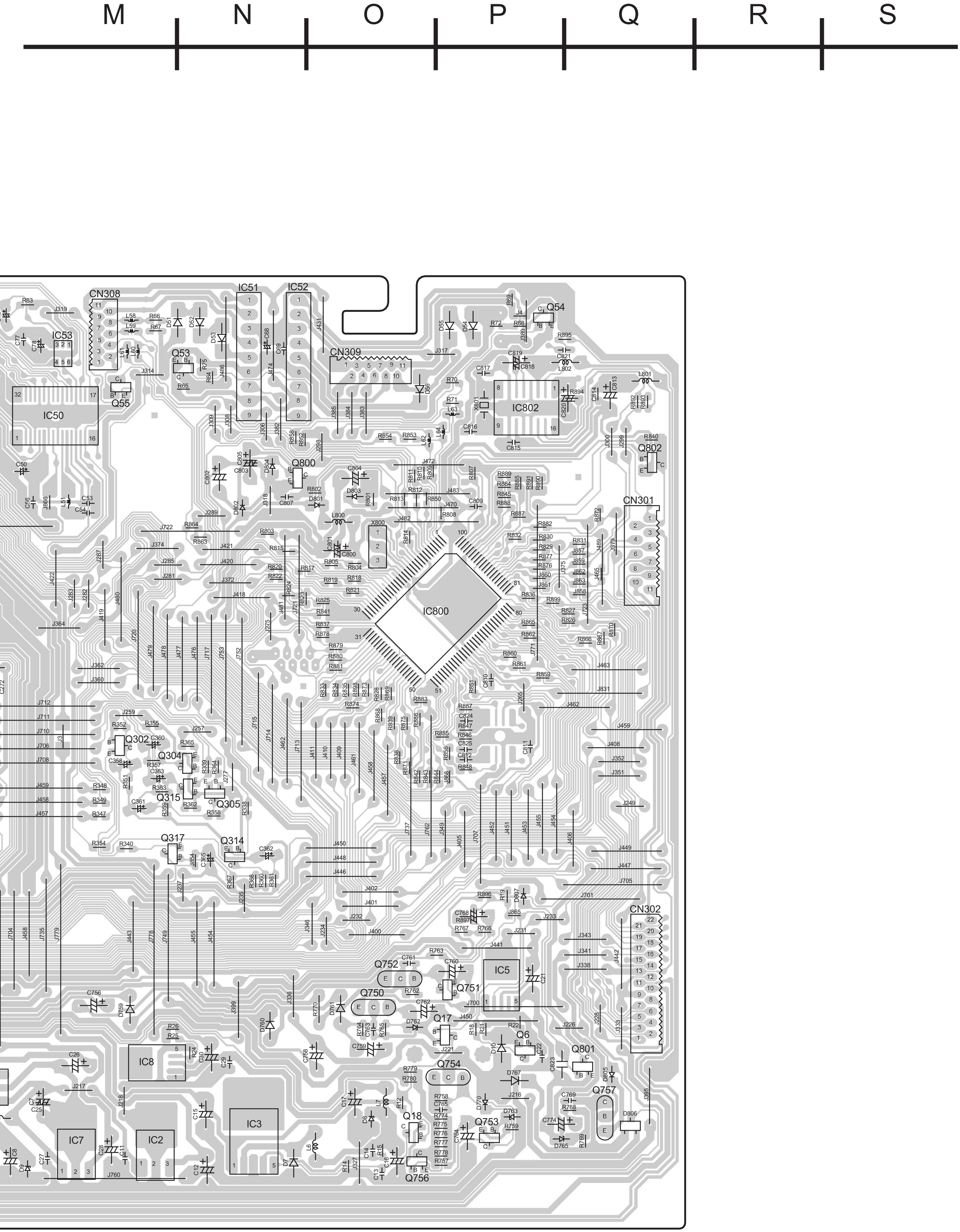
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IC3
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C69
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D55
D54
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R69
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J389
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R21
R22
D10
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R780
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J218
C15
C17
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D8
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R759
C769
R768
C774
D765
R769
D806
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C764
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C11
C8
D9
C27
J760
C12
D7
L6
C14
R15
C16
C13
R14
J327
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R75
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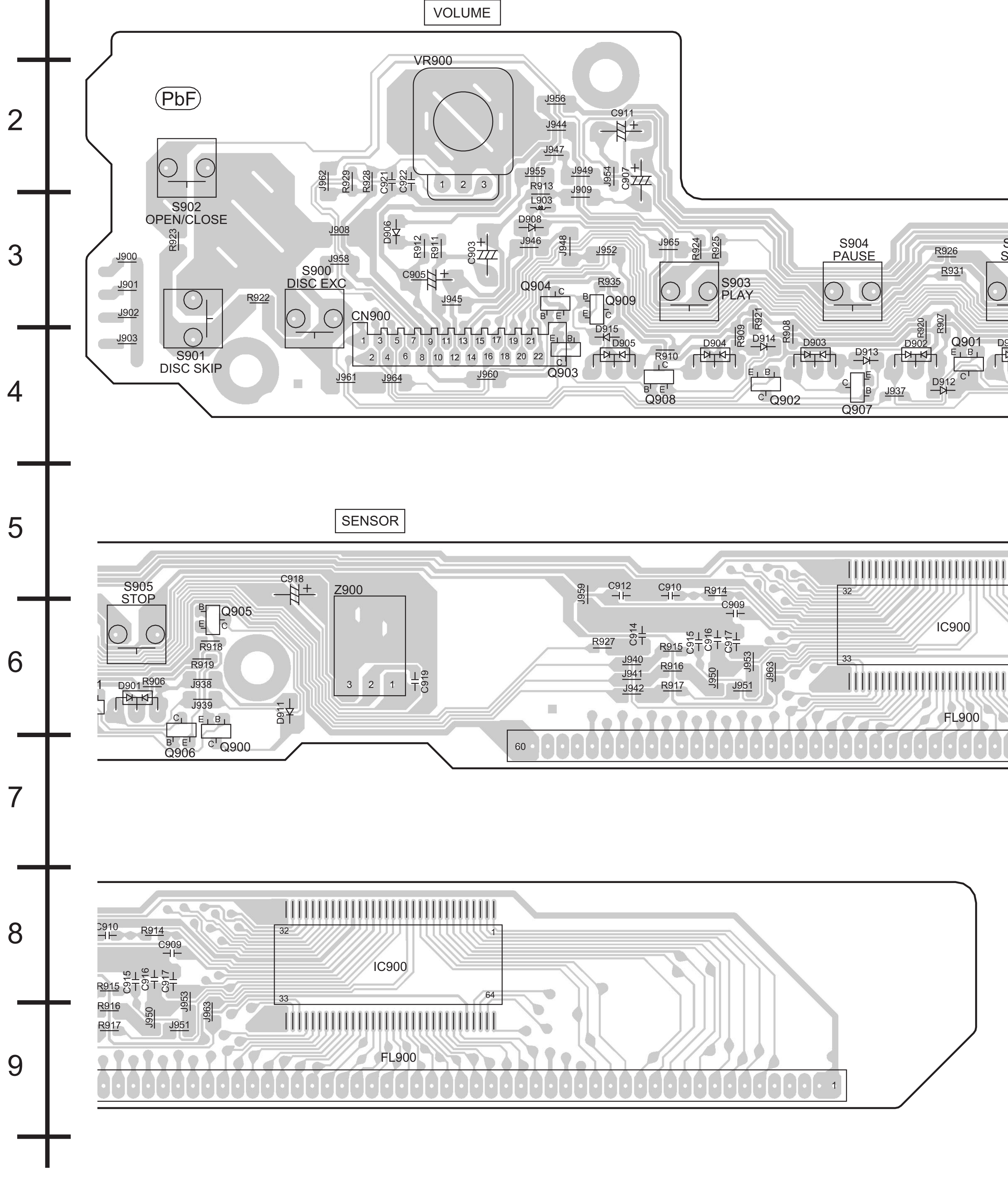
G PANEL P.C.B (REPX0333D)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J947
J955
R913
L903
D908
J946
J949
J909
J954
C907
C911
J962
R929
R928
C921
C922
S902
OPEN/CLOSE
R923
J908
J958
D906
R912
R911
C903
C905
J948
J952
J965
R924
R925
S904
PAUSE
R926
R931
J900
J901
J902
J903
S900
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R922
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DISC SKIP
CN900
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2 4 6 8 10 12 14 16 18 20 22
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D903
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R920
R907
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SENSOR
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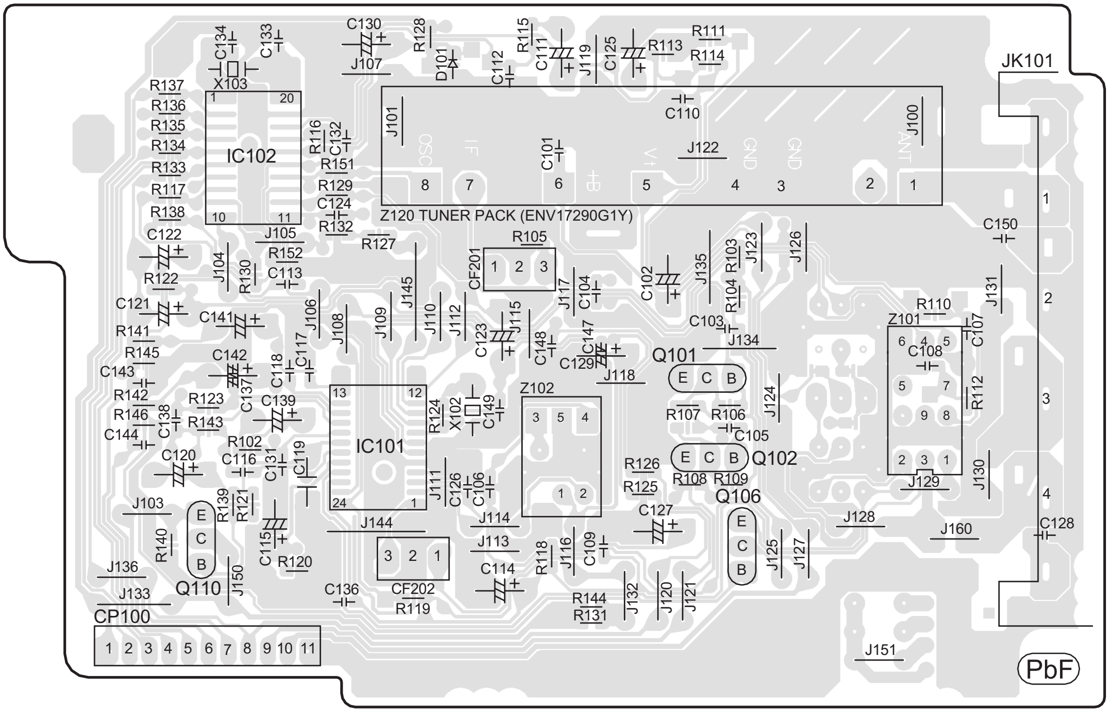
R919
J938
J939
D901
R906
Q906
Q900
C918
Z900
3 2 1
C919
D911
J959
C912
C910
R914
C909
C914
R927
C915
C916
C917
R915
J940
J941
J942
R916
R917
J950
J953
J951
J963
IC900
32
33
FL900
60
1
64

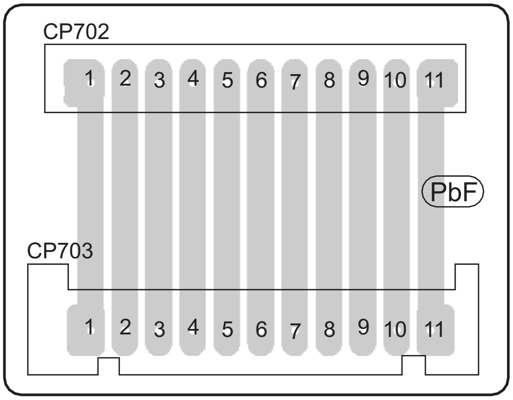
A B C D E F G

1 2 3 4 5 6 7 8 9

K TUNER P.C.B (REPX0373B)


C134
C133
X103
C130
J107
R128
D101
C112
R115
C111
J119
C125
R113
R111
R114
JK101
R137
R136
R135
R134
R133
R117
R138
IC102
1
20
10
11
R116
C132
R151
R129
C124
R132
J101
OSC
IF
C101
+B
V+
J122
GND
GND
ANT
J100
8
7
6
5
4
3
2
1
C110
Z120 TUNER PACK (ENV17290G1Y)
C150
FM LOOP ANTENNA
C122
J105
R152
R127
R105
1 2 3
CF201
J135
R103
J123
J126
R122
J104
R130
C113
J145
J117
C104
C102
R104
J131
C121
C141
J106
J108
J109
J110
J112
J115
C123
C148
C147
C129
J118
C103
J134
Q101
E C B
R110
Z101
C107
C108
6 4 5
5 7
9 8
2 3 1
R112
R141
R145
C143
C142
C137
C118
C117
R142
R146
C144
C138
R123
R143
C139
IC101
13
12
24
1
R124
X102
C149
Z102
3 5 4
1 2
R107
R106
C105
J124
AM LOOP ANTENNA
R102
C116
C131
C119
C120
R126
R125
R108
R109
E C B
Q102
Q106
J129
J130
J103
R139
R121
J111
C126
C106
C127
J128
C128
J160
E
C
B
R140
C115
J144
J114
J113
R118
J116
C109
J125
J127
J136
Q110
J150
R120
3 2 1
C114
J132
J120
J121
J133
C136
CF202
R119
R144
R131
CP100
1 2 3 4 5 6 7 8 9 10 11
J151
PbF

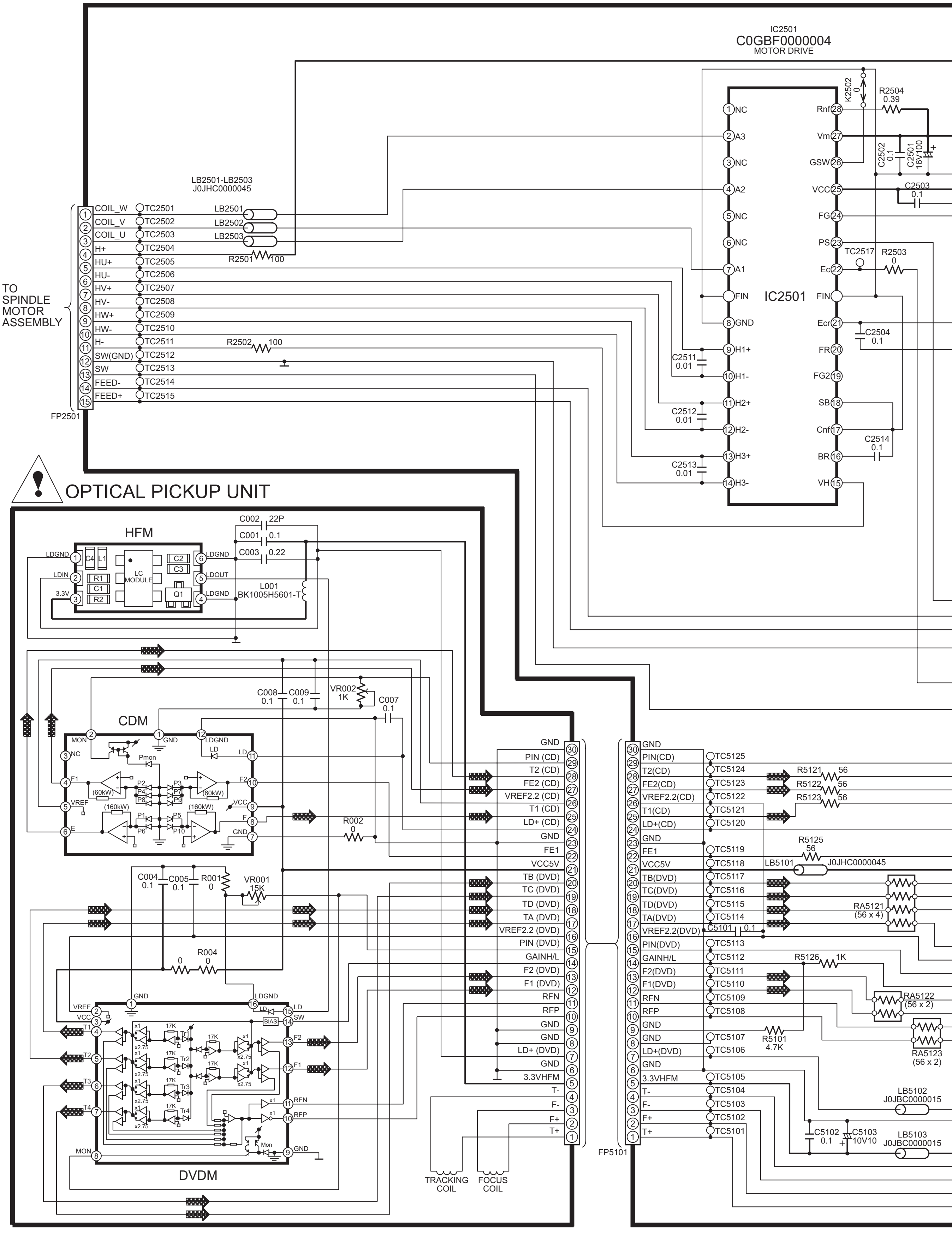
D TUNER INTERFACE P.C.B (REPX0400B-1)


CP702
1 2 3 4 5 6 7 8 9 10 11
PbF
CP703
1 2 3 4 5 6 7 8 9 10 11

SCHEMATIC DIAGRAM - 1

A DVD MODULE 1 CIRCUIT

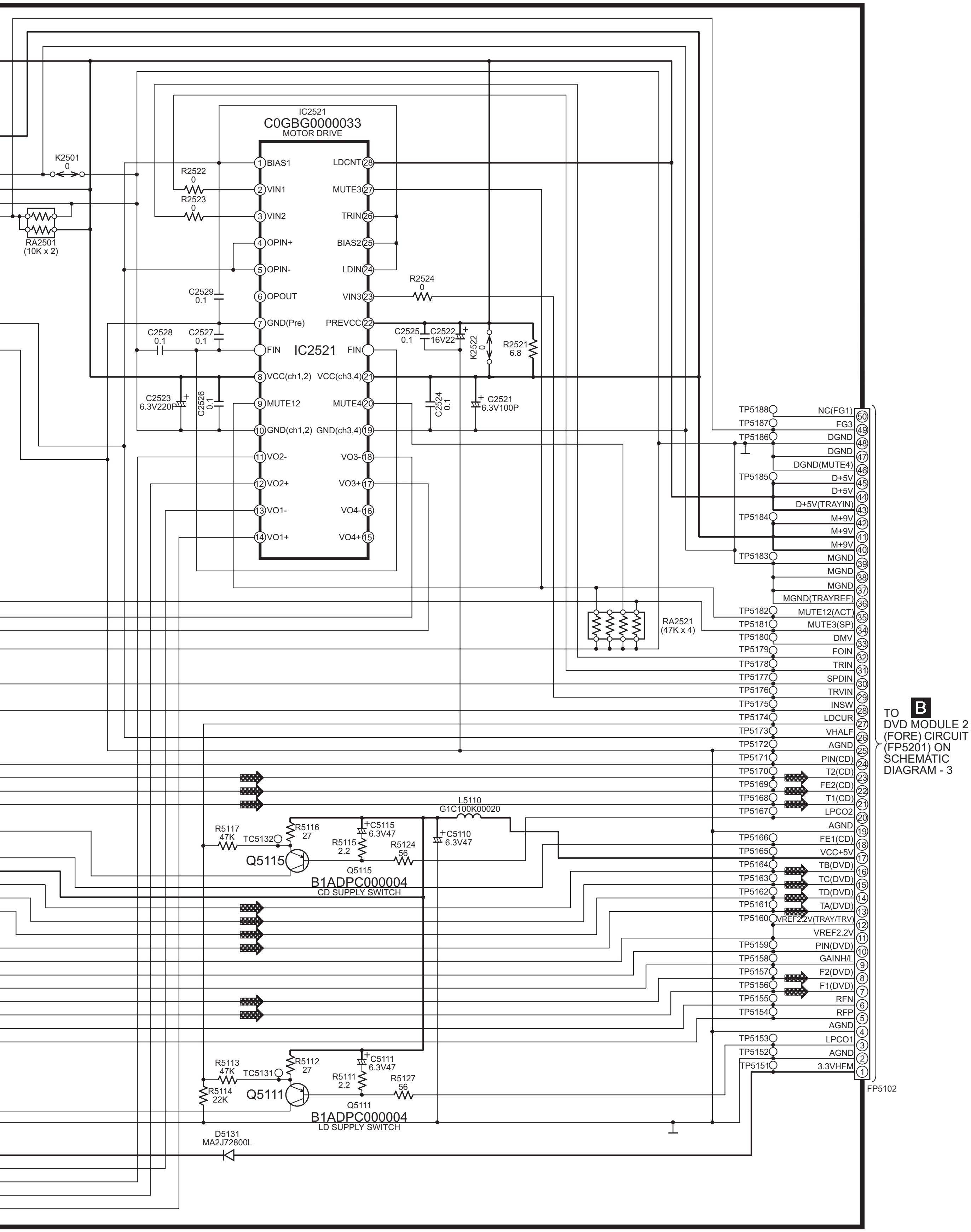
——— : +B SIGNAL LINE   ⇛ : CD-DA SIGNAL LINE


IC2501
C0GBF0000004
MOTOR DRIVE
K2502
0
R2504
0.39
1 NC
2 A3
3 NC
4 A2
5 NC
6 NC
7 A1
FIN
8 GND
9 H1+
10 H1-
11 H2+
12 H2-
13 H3+
14 H3-
Rnf 28
Vm 27
GSW 26
VCC 25
FG 24
PS 23
Ec 22
FIN
Ecr 21
FR 20
FG2 19
SB 18
Cnf 17
BR 16
VH 15
IC2501
C2502
0.1
C2501
16V100
C2503
0.1
TC2517
R2503
0
C2504
0.1
C2514
0.1
C2511
0.01
C2512
0.01
C2513
0.01
LB2501-LB2503
J0JHC0000045
LB2501
LB2502
LB2503
R2501
100
R2502
100
TO SPINDLE MOTOR ASSEMBLY
1 COIL_W TC2501
2 COIL_V TC2502
3 COIL_U TC2503
4 H+ TC2504
5 HU+ TC2505
6 HU- TC2506
7 HV+ TC2507
8 HV- TC2508
9 HW+ TC2509
10 HW- TC2510
11 H- TC2511
12 SW(GND) TC2512
13 SW TC2513
14 FEED- TC2514
15 FEED+ TC2515
FP2501
OPTICAL PICKUP UNIT
HFM
LDGND
LDIN
3.3V
C4
L1
R1
C1
R2
LC MODULE
C2
C3
Q1
6 LDGND
5 LDOUT
4 LDGND
C002 22P
C001 0.1
C003 0.22
L001
BK1005H5601-T
CDM
MON
NC
F1
VREF
E
GND
LDGND
LD
Pmon
P2
P4
P8
P3
P7
P9
(60kW)
(60kW)
(160kW)
(160kW)
P1
P6
P5
P10
VCC
F
GND
F2
C008 0.1
C009 0.1
VR002 1K
C007 0.1
R002 0
C004 0.1
C005 0.1
R001 0
VR001 15K
R004
0
0
DVDM
VREF
VCC
T1
T2
T3
T4
MON
GND
LDGND
LD
SW
BIAS
F2
F1
RFN
RFP
GND
Mon
x1
x2.75
17K
Tr1
Tr2
Tr3
Tr4
TRACKING COIL
FOCUS COIL
30 GND
29 PIN (CD)
28 T2 (CD)
27 FE2 (CD)
26 VREF2.2 (CD)
25 T1 (CD)
24 LD+ (CD)
23 GND
22 FE1
21 VCC5V
20 TB (DVD)
19 TC (DVD)
18 TD (DVD)
17 TA (DVD)
16 VREF2.2 (DVD)
15 PIN (DVD)
14 GAINH/L
13 F2 (DVD)
12 F1 (DVD)
11 RFN
10 RFP
9 GND
8 GND
7 LD+ (DVD)
6 GND
5 3.3VHFM
4 T-
3 F-
2 F+
1 T+
30 GND
29 PIN(CD) TC5125
28 T2(CD) TC5124
27 FE2(CD) TC5123
26 VREF2.2(CD) TC5122
25 T1(CD) TC5121
24 LD+(CD) TC5120
23 GND
22 FE1 TC5119
21 VCC5V TC5118
20 TB(DVD) TC5117
19 TC(DVD) TC5116
18 TD(DVD) TC5115
17 TA(DVD) TC5114
16 VREF2.2(DVD)
15 PIN(DVD) TC5113
14 GAINH/L TC5112
13 F2(DVD) TC5111
12 F1(DVD) TC5110
11 RFN TC5109
10 RFP TC5108
9 GND
8 GND TC5107
7 LD+(DVD) TC5106
6 GND
5 3.3VHFM TC5105
4 T- TC5104
3 F- TC5103
2 F+ TC5102
1 T+ TC5101
FP5101
R5121 56
R5122 56
R5123 56
R5125 56
LB5101
J0JHC0000045
RA5121 (56 x 4)
C5101 0.1
R5126 1K
RA5122 (56 x 2)
R5101 4.7K
RA5123 (56 x 2)
LB5102
J0JBC0000015
C5102 0.1
C5103 10V10
LB5103
J0JBC0000015

SCHEMATIC DIAGRAM - 2

A DVD MODULE 1 CIRCUIT

——— : +B SIGNAL LINE   ▨ : CD-DA SIGNAL LINE

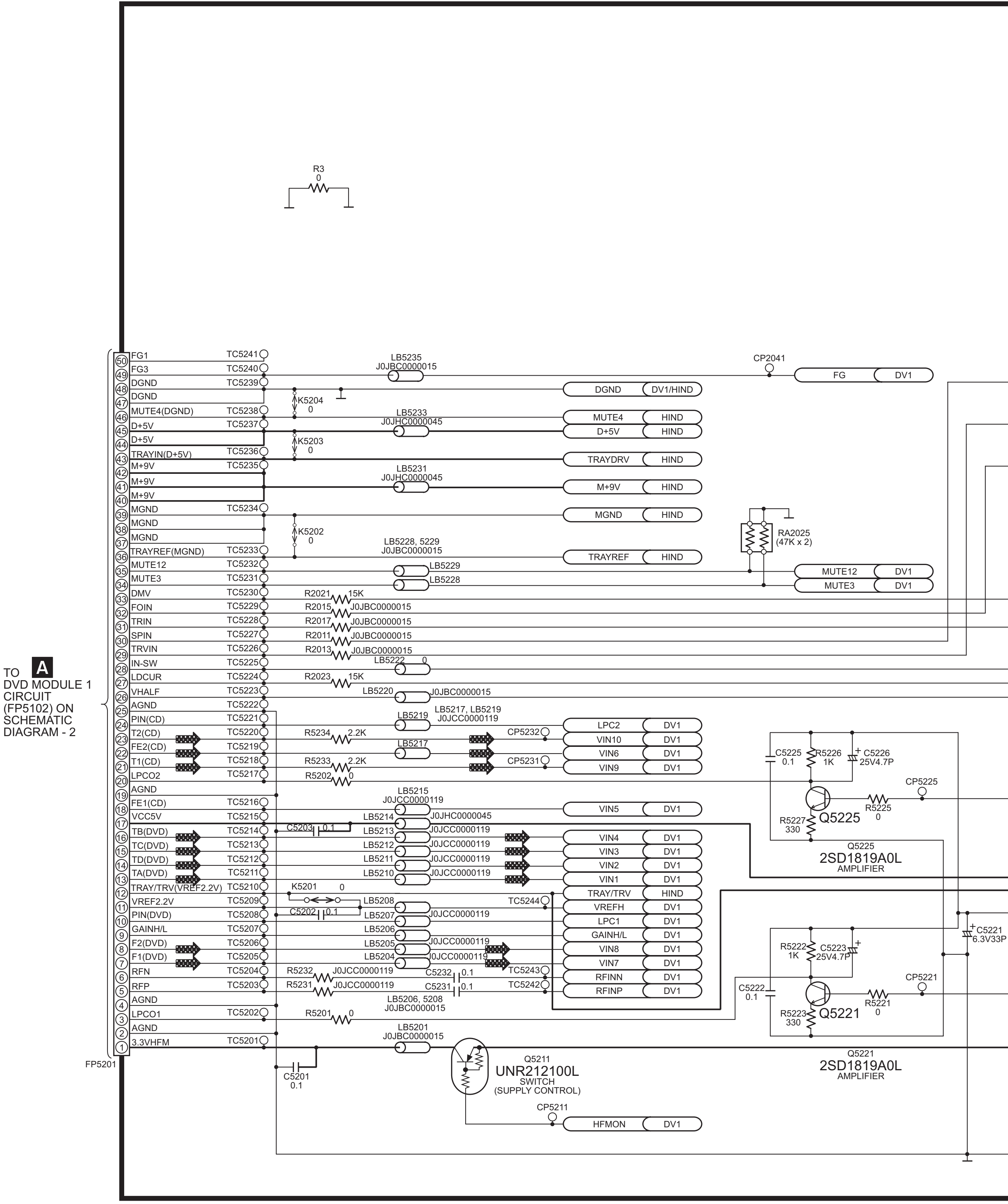


IC2521
C0GBG0000033
MOTOR DRIVE
IC2521
1 BIAS1
2 VIN1
3 VIN2
4 OPIN+
5 OPIN-
6 OPOUT
7 GND(Pre)
FIN
8 VCC(ch1,2)
9 MUTE12
10 GND(ch1,2)
11 VO2-
12 VO2+
13 VO1-
14 VO1+
28 LDCNT
27 MUTE3
26 TRIN
25 BIAS2
24 LDIN
23 VIN3
22 PREVCC
FIN
21 VCC(ch3,4)
20 MUTE4
19 GND(ch3,4)
18 VO3-
17 VO3+
16 VO4-
15 VO4+
K2501 0
R2522 0
R2523 0
RA2501 (10K x 2)
C2529 0.1
C2528 0.1
C2527 0.1
C2523 6.3V220P
C2526 0.1
R2524 0
C2525 0.1
C2522 16V22
K2522 0
R2521 6.8
C2524 0.1
C2521 6.3V100P
RA2521 (47K x 4)
L5110 G1C100K00020
R5117 47K
TC5132
R5116 27
C5115 6.3V47
R5115 2.2
R5124 56
C5110 6.3V47
Q5115
Q5115
B1ADPC000004
CD SUPPLY SWITCH
R5113 47K
TC5131
R5112 27
C5111 6.3V47
R5111 2.2
R5127 56
R5114 22K
Q5111
Q5111
B1ADPC000004
LD SUPPLY SWITCH
D5131 MA2J72800L
TP5188 NC(FG1) 50
TP5187 FG3 49
TP5186 DGND 48
DGND 47
DGND(MUTE4) 46
TP5185 D+5V 45
D+5V 44
D+5V(TRAYIN) 43
TP5184 M+9V 42
M+9V 41
M+9V 40
TP5183 MGND 39
MGND 38
MGND 37
MGND(TRAYREF) 36
TP5182 MUTE12(ACT) 35
TP5181 MUTE3(SP) 34
TP5180 DMV 33
TP5179 FOIN 32
TP5178 TRIN 31
TP5177 SPDIN 30
TP5176 TRVIN 29
TP5175 INSW 28
TP5174 LDCUR 27
TP5173 VHALF 26
TP5172 AGND 25
TP5171 PIN(CD) 24
TP5170 T2(CD) 23
TP5169 FE2(CD) 22
TP5168 T1(CD) 21
TP5167 LPCO2 20
AGND 19
TP5166 FE1(CD) 18
TP5165 VCC+5V 17
TP5164 TB(DVD) 16
TP5163 TC(DVD) 15
TP5162 TD(DVD) 14
TP5161 TA(DVD) 13
TP5160 VREF2.2V(TRAY/TRV) 12
VREF2.2V 11
TP5159 PIN(DVD) 10
TP5158 GAINH/L 9
TP5157 F2(DVD) 8
TP5156 F1(DVD) 7
TP5155 RFN 6
TP5154 RFP 5
AGND 4
TP5153 LPCO1 3
TP5152 AGND 2
TP5151 3.3VHFM 1
FP5102
TO B DVD MODULE 2 (FORE) CIRCUIT (FP5201) ON SCHEMATIC DIAGRAM - 3

SCHEMATIC DIAGRAM - 3

B DVD MODULE 2 (FORE) CIRCUIT

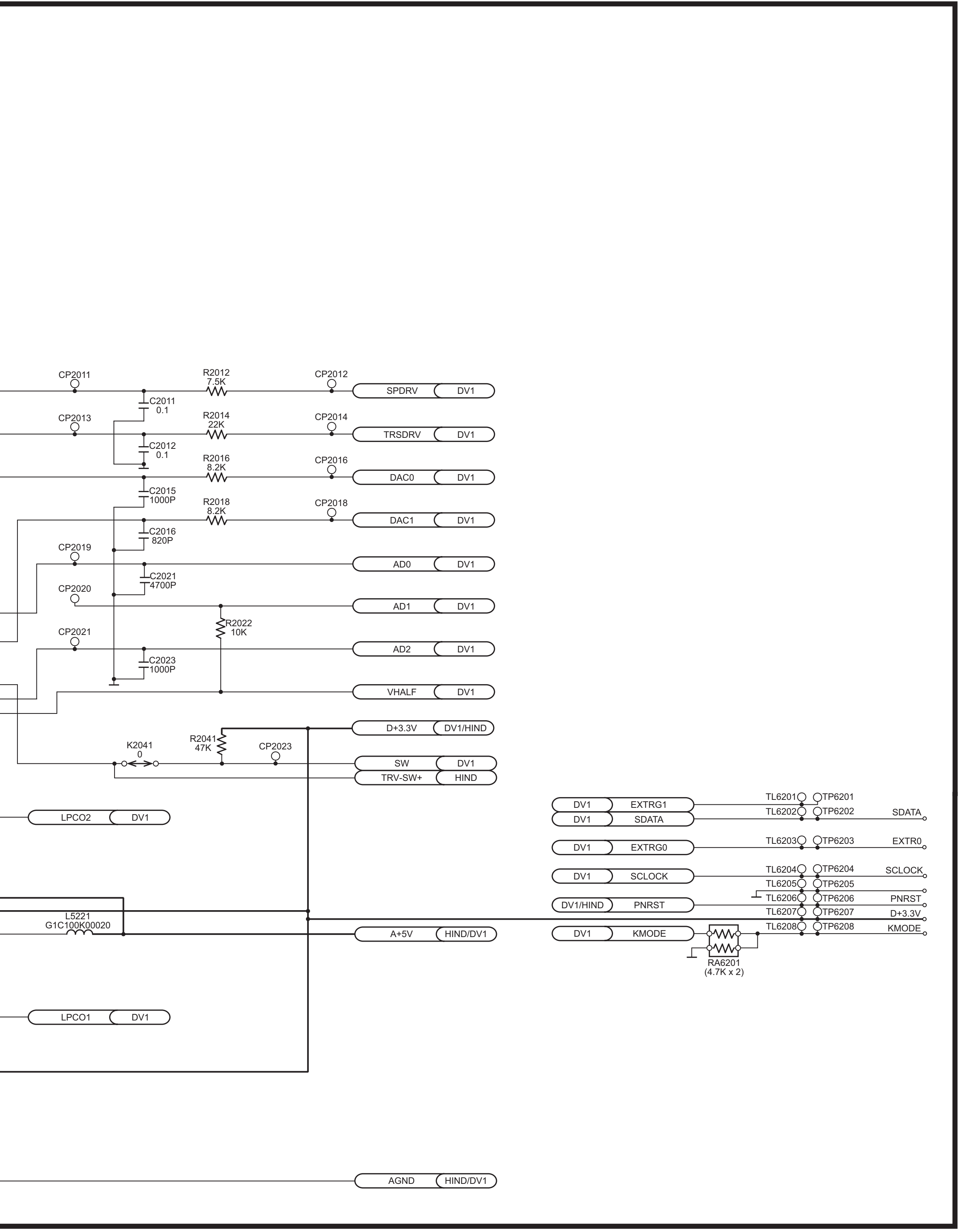
―― : +B SIGNAL LINE   ▨ : CD-DA SIGNAL LINE



R3
0
TO A DVD MODULE 1 CIRCUIT (FP5102) ON SCHEMATIC DIAGRAM - 2
FP5201
50 FG1 TC5241
49 FG3 TC5240
48 DGND TC5239
47 DGND
46 MUTE4(DGND) TC5238
45 D+5V TC5237
44 D+5V
43 TRAYIN(D+5V) TC5236
42 M+9V TC5235
41 M+9V
40 M+9V
39 MGND TC5234
38 MGND
37 MGND
36 TRAYREF(MGND) TC5233
35 MUTE12 TC5232
34 MUTE3 TC5231
33 DMV TC5230
32 FOIN TC5229
31 TRIN TC5228
30 SPIN TC5227
29 TRVIN TC5226
28 IN-SW TC5225
27 LDCUR TC5224
26 VHALF TC5223
25 AGND TC5222
24 PIN(CD) TC5221
23 T2(CD) TC5220
22 FE2(CD) TC5219
21 T1(CD) TC5218
20 LPCO2 TC5217
19 AGND
18 FE1(CD) TC5216
17 VCC5V TC5215
16 TB(DVD) TC5214
15 TC(DVD) TC5213
14 TD(DVD) TC5212
13 TA(DVD) TC5211
12 TRAY/TRV(VREF2.2V) TC5210
11 VREF2.2V TC5209
10 PIN(DVD) TC5208
9 GAINH/L TC5207
8 F2(DVD) TC5206
7 F1(DVD) TC5205
6 RFN TC5204
5 RFP TC5203
4 AGND
3 LPCO1 TC5202
2 AGND
1 3.3VHFM TC5201
LB5235 J0JBC0000015
CP2041
FG DV1
DGND DV1/HIND
K5204 0
LB5233 J0JHC0000045
MUTE4 HIND
D+5V HIND
K5203 0
TRAYDRV HIND
LB5231 J0JHC0000045
M+9V HIND
MGND HIND
K5202 0
RA2025 (47K x 2)
LB5228, 5229 J0JBC0000015
TRAYREF HIND
LB5229
LB5228
MUTE12 DV1
MUTE3 DV1
R2021 15K
R2015 J0JBC0000015
R2017 J0JBC0000015
R2011 J0JBC0000015
R2013 J0JBC0000015
LB5222 0
R2023 15K
LB5220 J0JBC0000015
LB5219
LB5217, LB5219 J0JCC0000119
R5234 2.2K
CP5232
LPC2 DV1
VIN10 DV1
LB5217
VIN6 DV1
R5233 2.2K
CP5231
VIN9 DV1
R5202 0
C5225 0.1
R5226 1K
C5226 25V4.7P
CP5225
R5225 0
R5227 330
Q5225
Q5225 2SD1819A0L AMPLIFIER
LB5215 J0JCC0000119
VIN5 DV1
LB5214 J0JHC0000045
C5203 0.1
LB5213 J0JCC0000119
LB5212 J0JCC0000119
LB5211 J0JCC0000119
LB5210 J0JCC0000119
VIN4 DV1
VIN3 DV1
VIN2 DV1
VIN1 DV1
K5201 0
TRAY/TRV HIND
LB5208
TC5244
VREFH DV1
C5202 0.1
LB5207 J0JCC0000119
LPC1 DV1
LB5206
GAINH/L DV1
LB5205 J0JCC0000119
VIN8 DV1
LB5204 J0JCC0000119
VIN7 DV1
R5232 J0JCC0000119
C5232 0.1
TC5243
RFINN DV1
R5231 J0JCC0000119
C5231 0.1
TC5242
RFINP DV1
LB5206, 5208 J0JBC0000015
R5201 0
C5221 6.3V33P
R5222 1K
C5223 25V4.7P
CP5221
C5222 0.1
R5221 0
R5223 330
Q5221
Q5221 2SD1819A0L AMPLIFIER
LB5201 J0JBC0000015
Q5211 UNR212100L SWITCH (SUPPLY CONTROL)
C5201 0.1
CP5211
HFMON DV1

B DVD MODULE 2 (FORE) CIRCUIT

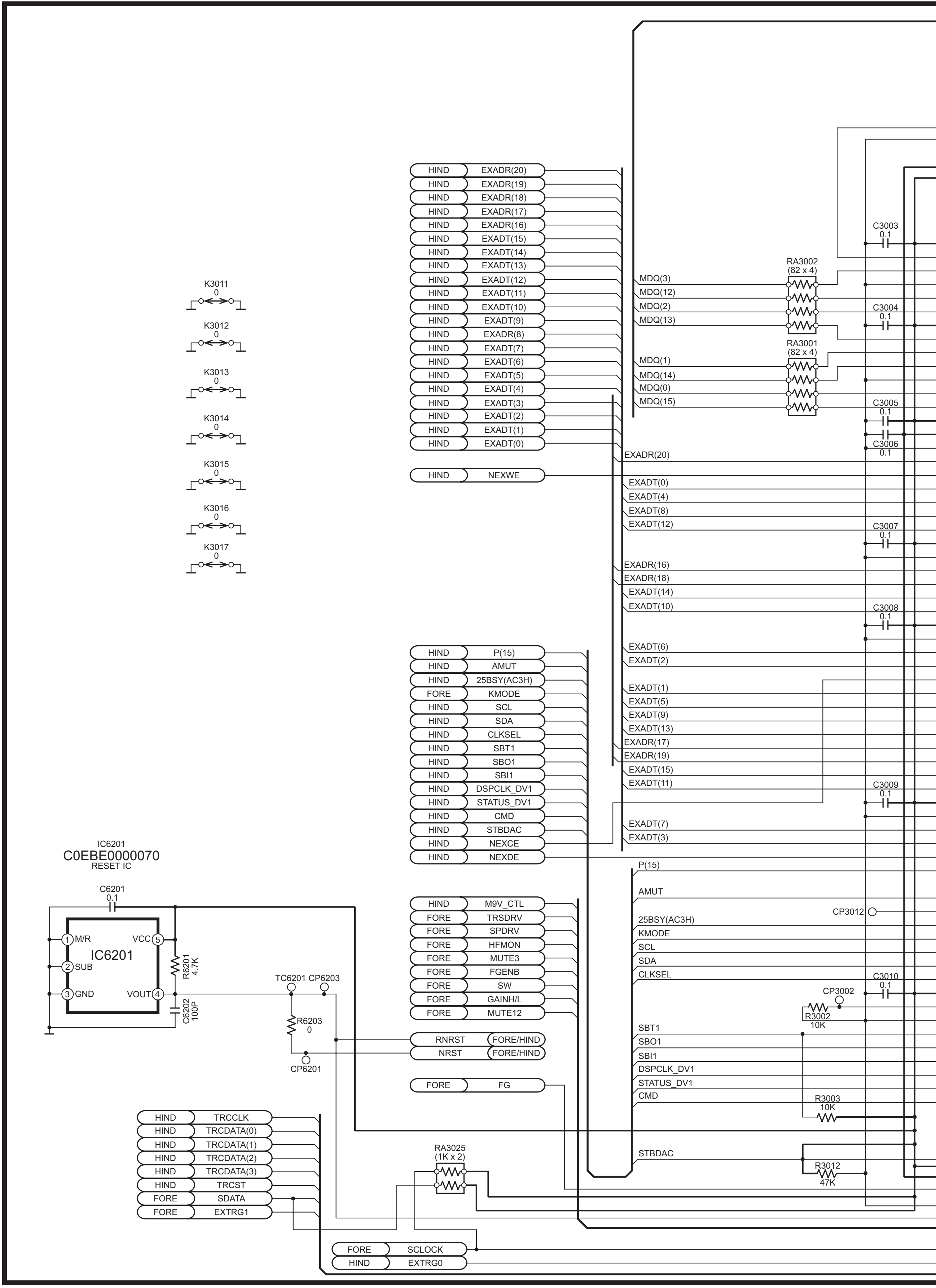
——— : +B SIGNAL LINE


CP2011
R2012
7.5K
CP2012
SPDRV
DV1
C2011
0.1
CP2013
R2014
22K
CP2014
TRSDRV
DV1
C2012
0.1
R2016
8.2K
CP2016
DAC0
DV1
C2015
1000P
R2018
8.2K
CP2018
DAC1
DV1
C2016
820P
CP2019
AD0
DV1
C2021
4700P
CP2020
AD1
DV1
R2022
10K
CP2021
AD2
DV1
C2023
1000P
VHALF
DV1
D+3.3V
DV1/HIND
K2041
0
R2041
47K
CP2023
SW
DV1
TRV-SW+
HIND
LPCO2
DV1
L5221
G1C100K00020
A+5V
HIND/DV1
LPCO1
DV1
AGND
HIND/DV1
DV1
EXTRG1
DV1
SDATA
DV1
EXTRG0
DV1
SCLOCK
DV1/HIND
PNRST
DV1
KMODE
RA6201
(4.7K x 2)
TL6201
TP6201
TL6202
TP6202
SDATA
TL6203
TP6203
EXTR0
TL6204
TP6204
SCLOCK
TL6205
TP6205
TL6206
TP6206
PNRST
TL6207
TP6207
D+3.3V
TL6208
TP6208
KMODE

SCHEMATIC DIAGRAM - 5

B DVD MODULE 2 (DV1) CIRCUIT

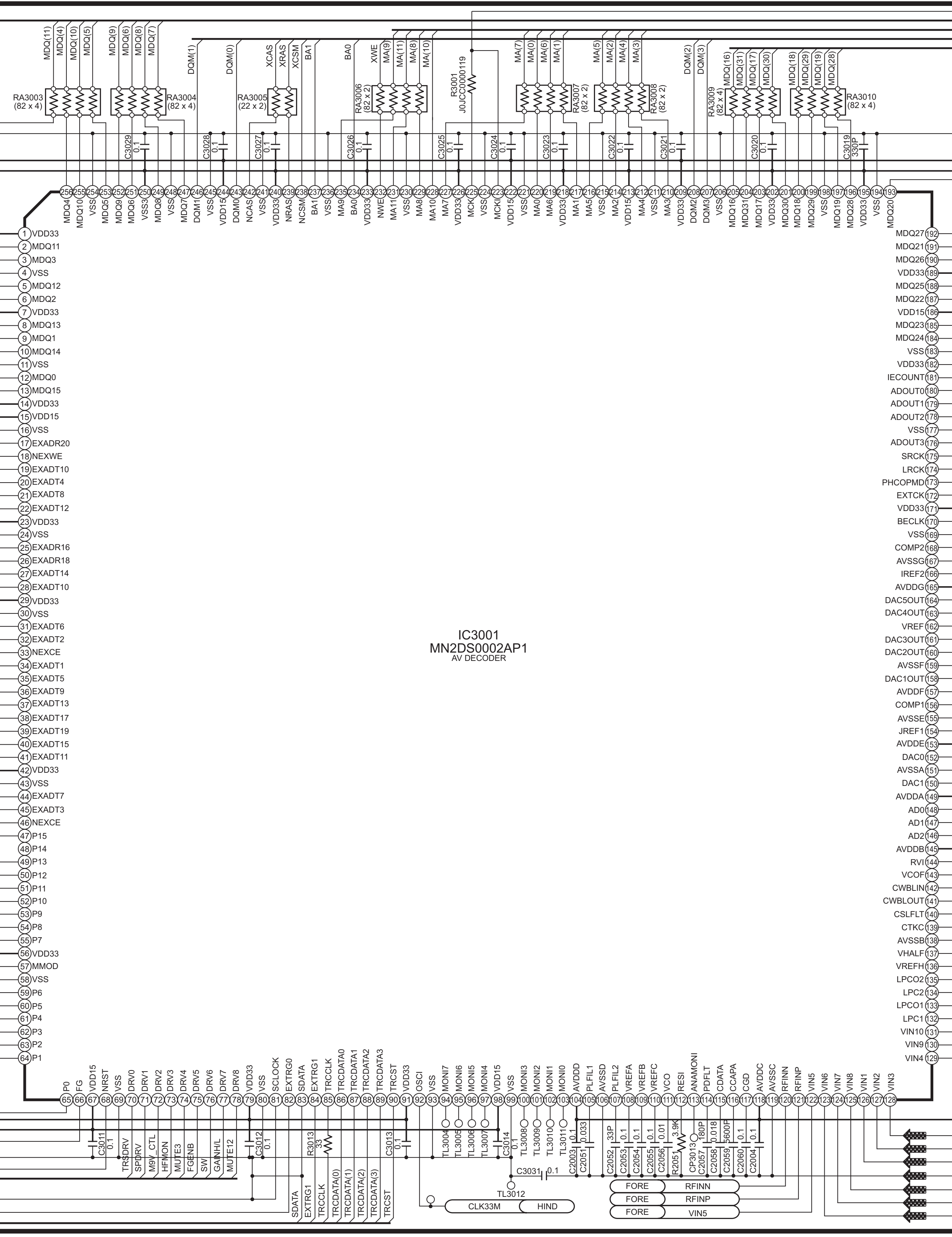
: +B SIGNAL LINE


HIND EXADR(20)
HIND EXADR(19)
HIND EXADR(18)
HIND EXADR(17)
HIND EXADR(16)
HIND EXADT(15)
HIND EXADT(14)
HIND EXADT(13)
HIND EXADT(12)
HIND EXADT(11)
HIND EXADT(10)
HIND EXADT(9)
HIND EXADR(8)
HIND EXADT(7)
HIND EXADT(6)
HIND EXADT(5)
HIND EXADT(4)
HIND EXADT(3)
HIND EXADT(2)
HIND EXADT(1)
HIND EXADT(0)
HIND NEXWE
K3011 0
K3012 0
K3013 0
K3014 0
K3015 0
K3016 0
K3017 0
RA3002 (82 x 4)
MDQ(3)
MDQ(12)
MDQ(2)
MDQ(13)
RA3001 (82 x 4)
MDQ(1)
MDQ(14)
MDQ(0)
MDQ(15)
C3003 0.1
C3004 0.1
C3005 0.1
C3006 0.1
C3007 0.1
C3008 0.1
C3009 0.1
C3010 0.1
EXADR(20)
EXADT(0)
EXADT(4)
EXADT(8)
EXADT(12)
EXADR(16)
EXADR(18)
EXADT(14)
EXADT(10)
EXADT(6)
EXADT(2)
EXADT(1)
EXADT(5)
EXADT(9)
EXADT(13)
EXADR(17)
EXADR(19)
EXADT(15)
EXADT(11)
EXADT(7)
EXADT(3)
HIND P(15)
HIND AMUT
HIND 25BSY(AC3H)
FORE KMODE
HIND SCL
HIND SDA
HIND CLKSEL
HIND SBT1
HIND SBO1
HIND SBI1
HIND DSPCLK_DV1
HIND STATUS_DV1
HIND CMD
HIND STBDAC
HIND NEXCE
HIND NEXDE
P(15)
AMUT
CP3012
25BSY(AC3H)
KMODE
SCL
SDA
CLKSEL
CP3002
R3002 10K
SBT1
SBO1
SBI1
DSPCLK_DV1
STATUS_DV1
CMD
R3003 10K
STBDAC
R3012 47K
IC6201
C0EBE0000070
RESET IC
C6201 0.1
1 M/R
VCC 5
IC6201
2 SUB
3 GND
VOUT 4
R6201 4.7K
C6202 100P
TC6201 CP6203
R6203 0
CP6201
HIND M9V_CTL
FORE TRSDRV
FORE SPDRV
FORE HFMON
FORE MUTE3
FORE FGENB
FORE SW
FORE GAINH/L
FORE MUTE12
RNRST FORE/HIND
NRST FORE/HIND
FORE FG
HIND TRCCLK
HIND TRCDATA(0)
HIND TRCDATA(1)
HIND TRCDATA(2)
HIND TRCDATA(3)
HIND TRCST
FORE SDATA
FORE EXTRG1
RA3025 (1K x 2)
FORE SCLOCK
HIND EXTRG0

SCHEMATIC DIAGRAM - 6

B DVD MODULE 2 (DV1) CIRCUIT

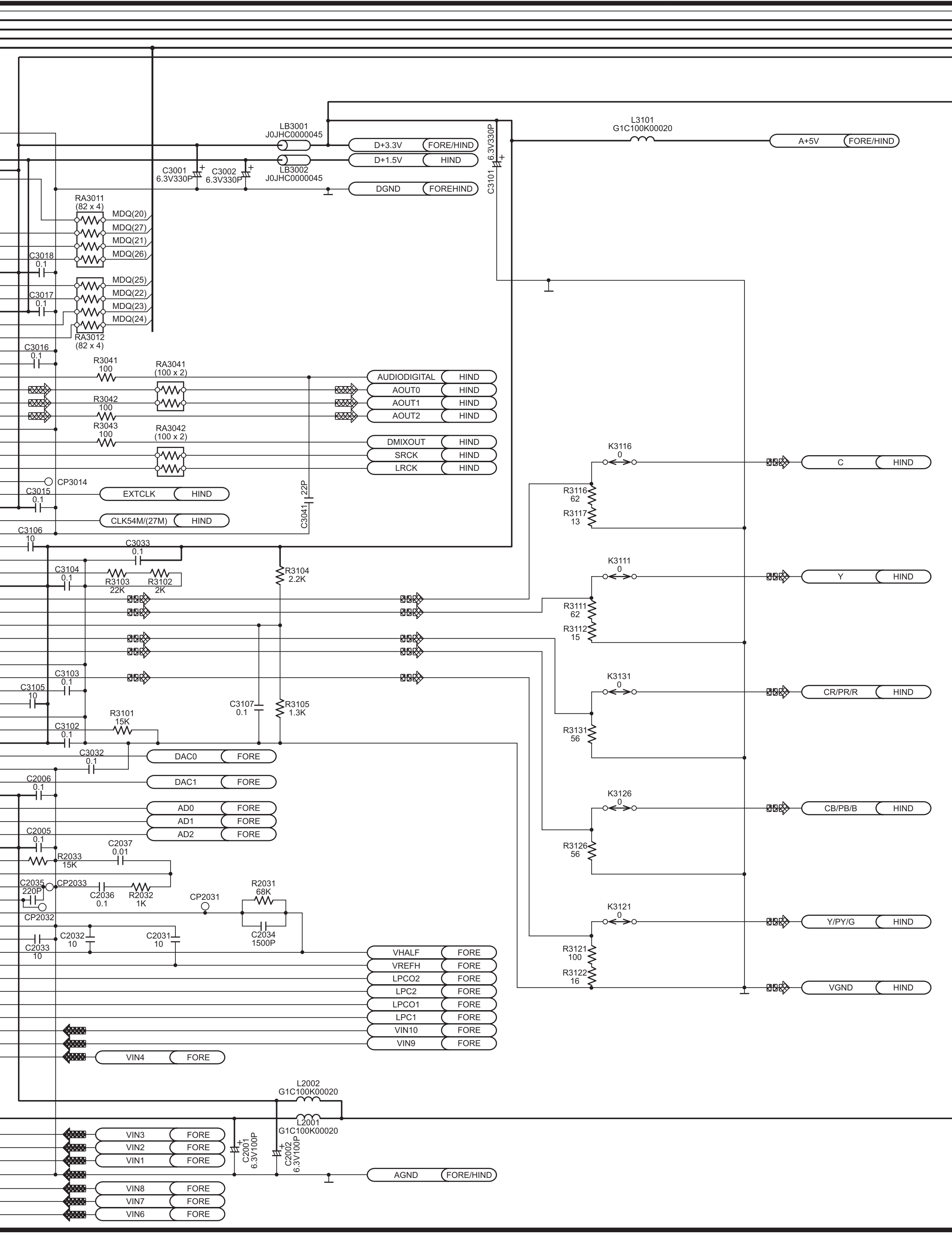
: +B SIGNAL LINE ⇨ : CD-DA SIGNAL LINE


IC3001
MN2DS0002AP1
AV DECODER
RA3003 (82 x 4)
RA3004 (82 x 4)
RA3005 (22 x 2)
RA3006 (82 x 2)
R3001 J0JCC0000119
RA3007 (82 x 2)
RA3008 (82 x 2)
RA3009 (82 x 4)
RA3010 (82 x 4)
C3029 0.1
C3028 0.1
C3027 0.1
C3026 0.1
C3025 0.1
C3024 0.1
C3023 0.1
C3022 0.1
C3021 0.1
C3020 0.1
C3019 330P
MDQ(11)
MDQ(4)
MDQ(10)
MDQ(5)
MDQ(9)
MDQ(6)
MDQ(8)
MDQ(7)
DQM(1)
DQM(0)
XCAS
XRAS
XCSM
BA1
BA0
XWE
MA(9)
MA(11)
MA(8)
MA(10)
MA(7)
MA(0)
MA(6)
MA(1)
MA(5)
MA(2)
MA(4)
MA(3)
DQM(2)
DQM(3)
MDQ(16)
MDQ(31)
MDQ(17)
MDQ(30)
MDQ(18)
MDQ(29)
MDQ(19)
MDQ(28)
256 MDQ4
255 MDQ10
254 VSS
253 MDQ5
252 MDQ9
251 MDQ6
250 VSS3
249 MDQ8
248 VSS
247 MDQ7
246 DQM1
245 VSS
244 VDD15
243 DQM0
242 NCAS
241 VSS
240 VDD33
239 NRAS
238 NCSM
237 BA1
236 VSS
235 MA9
234 BA0
233 VDD33
232 NWE
231 MA11
230 VSS
229 MA8
228 MA10
227 MA7
226 VDD33
225 MCK
224 VSS
223 MCKI
222 VDD15
221 VSS
220 MA0
219 MA6
218 VDD33
217 MA1
216 MA5
215 VSS
214 MA2
213 VDD15
212 MA4
211 VSS
210 MA3
209 VDD33
208 DQM2
207 DQM3
206 VSS
205 MDQ16
204 MDQ31
203 MDQ17
202 VDD33
201 MDQ30
200 MDQ18
199 MDQ29
198 VSS
197 MDQ19
196 MDQ28
195 VDD33
194 VSS
193 MDQ20
1 VDD33
2 MDQ11
3 MDQ3
4 VSS
5 MDQ12
6 MDQ2
7 VDD33
8 MDQ13
9 MDQ1
10 MDQ14
11 VSS
12 MDQ0
13 MDQ15
14 VDD33
15 VDD15
16 VSS
17 EXADR20
18 NEXWE
19 EXADT10
20 EXADT4
21 EXADT8
22 EXADT12
23 VDD33
24 VSS
25 EXADR16
26 EXADR18
27 EXADT14
28 EXADT10
29 VDD33
30 VSS
31 EXADT6
32 EXADT2
33 NEXCE
34 EXADT1
35 EXADT5
36 EXADT9
37 EXADT13
38 EXADT17
39 EXADT19
40 EXADT15
41 EXADT11
42 VDD33
43 VSS
44 EXADT7
45 EXADT3
46 NEXCE
47 P15
48 P14
49 P13
50 P12
51 P11
52 P10
53 P9
54 P8
55 P7
56 VDD33
57 MMOD
58 VSS
59 P6
60 P5
61 P4
62 P3
63 P2
64 P1
MDQ27 192
MDQ21 191
MDQ26 190
VDD33 189
MDQ25 188
MDQ22 187
VDD15 186
MDQ23 185
MDQ24 184
VSS 183
VDD33 182
IECOUNT 181
ADOUT0 180
ADOUT1 179
ADOUT2 178
VSS 177
ADOUT3 176
SRCK 175
LRCK 174
PHCOPMD 173
EXTCK 172
VDD33 171
BECLK 170
VSS 169
COMP2 168
AVSSG 167
IREF2 166
AVDDG 165
DAC5OUT 164
DAC4OUT 163
VREF 162
DAC3OUT 161
DAC2OUT 160
AVSSF 159
DAC1OUT 158
AVDDF 157
COMP1 156
AVSSE 155
JREF1 154
AVDDE 153
DAC0 152
AVSSA 151
DAC1 150
AVDDA 149
AD0 148
AD1 147
AD2 146
AVDDB 145
RVI 144
VCOF 143
CWBLIN 142
CWBLOUT 141
CSLFLT 140
CTKC 139
AVSSB 138
VHALF 137
VREFH 136
LPCO2 135
LPC2 134
LPCO1 133
LPC1 132
VIN10 131
VIN9 130
VIN4 129
65 P0
66 FG
67 VDD15
68 NRST
69 VSS
70 DRV0
71 DRV1
72 DRV2
73 DRV3
74 DRV4
75 DRV5
76 DRV6
77 DRV7
78 DRV8
79 VDD33
80 VSS
81 SCLOCK
82 EXTRG0
83 SDATA
84 EXTRG1
85 TRCCLK
86 TRCDATA0
87 TRCDATA1
88 TRCDATA2
89 TRCDATA3
90 TRCST
91 VDD33
92 OSCI
93 VSS
94 MONI7
95 MONI6
96 MONI5
97 MONI4
98 VDD15
99 VSS
100 MONI3
101 MONI2
102 MONI1
103 MONI0
104 AVDDD
105 PLFIL1
106 AVSSD
107 PLFIL2
108 VREFA
109 VREFB
110 VREFC
111 VCO
112 RESI
113 ANAMONI
114 PDFLT
115 CDATA
116 CCAPA
117 CGD
118 AVDDC
119 AVSSC
120 RFINN
121 RFINP
122 VIN5
123 VIN6
124 VIN7
125 VIN8
126 VIN1
127 VIN2
128 VIN3
C3011 0.1
TRSDRV
SPDRV
M9V_CTL
HFMON
MUTE3
FGENB
SW
GAINH/L
MUTE12
C3012 0.1
R3013 33
C3013 0.1
SDATA
EXTRG1
TRCCLK
TRCDATA(0)
TRCDATA(1)
TRCDATA(2)
TRCDATA(3)
TRCST
TL3004
TL3005
TL3006
TL3007
C3014 0.1
TL3008
TL3009
TL3010
TL3011
C3031 0.1
TL3012
CLK33M
HIND
C2003 0.1
C2051 0.033
C2052 33P
C2053 0.1
C2054 0.1
C2055 0.1
C2056 0.01
R2051 3.9K
CP3013
C2057 180P
C2058 0.018
C2059 5600P
C2060 0.1
C2004 0.1
FORE
RFINN
FORE
RFINP
FORE
VIN5

SCHEMATIC DIAGRAM - 7

B DVD MODULE 2 (DV1) CIRCUIT

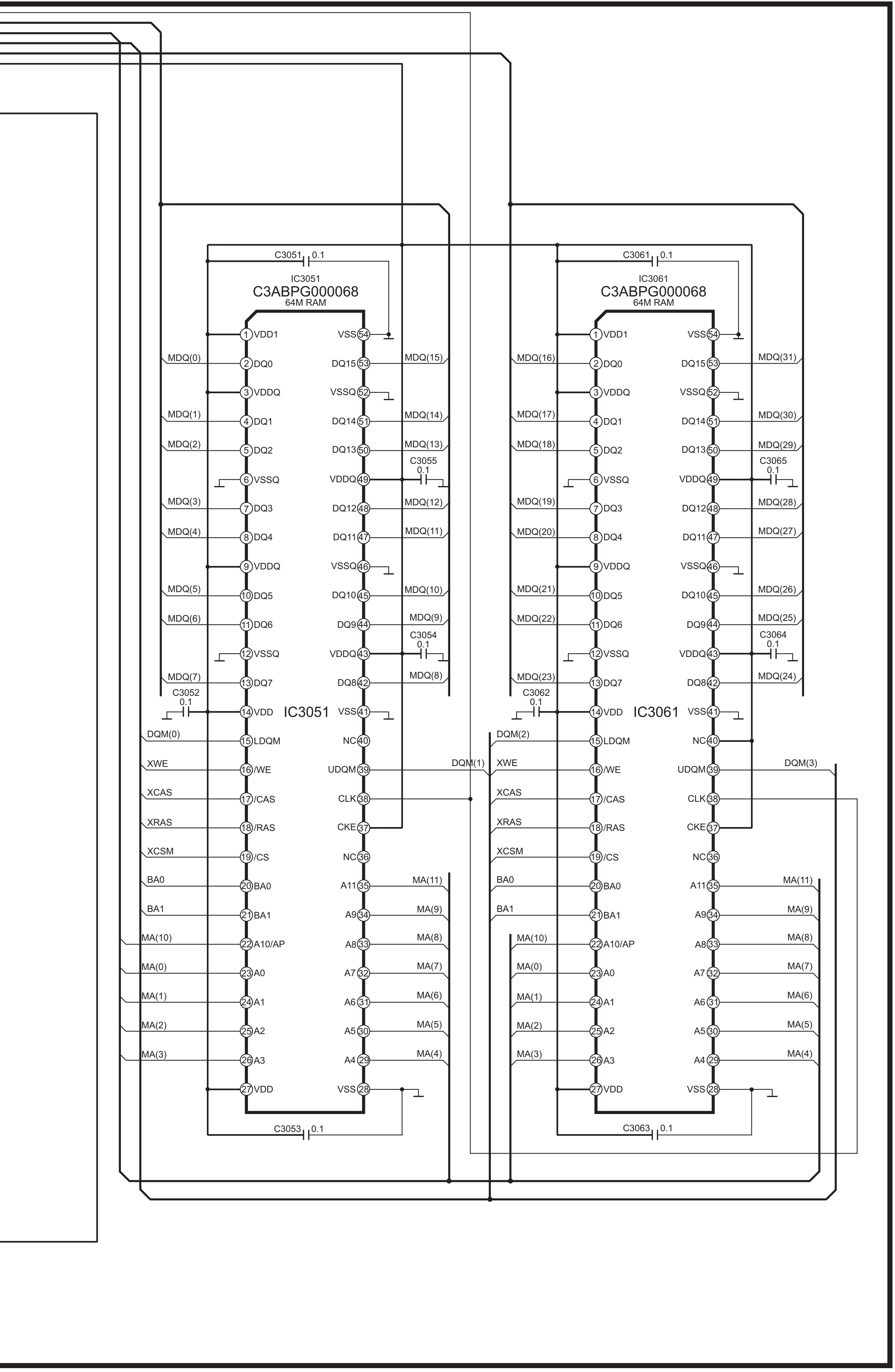
▨ : CD-DA SIGNAL LINE
— : +B SIGNAL LINE
▨ : DVD (AUDIO) SIGNAL LINE
▨ : DVD (VIDEO) SIGNAL LINE


LB3001
J0JHC0000045
D+3.3V
FORE/HIND
D+1.5V
HIND
LB3002
J0JHC0000045
C3001
6.3V330P
C3002
6.3V330P
DGND
FOREHIND
C3101 6.3V330P
L3101
G1C100K00020
A+5V
FORE/HIND
RA3011
(82 x 4)
MDQ(20)
MDQ(27)
MDQ(21)
MDQ(26)
C3018
0.1
MDQ(25)
MDQ(22)
MDQ(23)
MDQ(24)
C3017
0.1
RA3012
(82 x 4)
C3016
0.1
R3041
100
RA3041
(100 x 2)
AUDIODIGITAL
HIND
AOUT0
HIND
AOUT1
HIND
AOUT2
HIND
R3042
100
R3043
100
RA3042
(100 x 2)
DMIXOUT
HIND
SRCK
HIND
LRCK
HIND
CP3014
C3015
0.1
EXTCLK
HIND
CLK54M/(27M)
HIND
C3041 22P
C3106
10
C3033
0.1
C3104
0.1
R3103
22K
R3102
2K
R3104
2.2K
K3116
0
C
HIND
R3116
62
R3117
13
K3111
0
Y
HIND
R3111
62
R3112
15
C3103
0.1
C3105
10
K3131
0
CR/PR/R
HIND
C3107
0.1
R3105
1.3K
R3131
56
C3102
0.1
R3101
15K
C3032
0.1
DAC0
FORE
DAC1
FORE
C2006
0.1
AD0
FORE
AD1
FORE
AD2
FORE
K3126
0
CB/PB/B
HIND
R3126
56
C2005
0.1
R2033
15K
C2037
0.01
C2035
220P
CP2033
C2036
0.1
R2032
1K
CP2032
CP2031
R2031
68K
C2034
1500P
K3121
0
Y/PY/G
HIND
C2032
10
C2031
10
C2033
10
R3121
100
R3122
16
VGND
HIND
VHALF
FORE
VREFH
FORE
LPCO2
FORE
LPC2
FORE
LPCO1
FORE
LPC1
FORE
VIN10
FORE
VIN9
FORE
VIN4
FORE
L2002
G1C100K00020
L2001
G1C100K00020
VIN3
FORE
VIN2
FORE
VIN1
FORE
C2001
6.3V100P
C2002
6.3V100P
AGND
FORE/HIND
VIN8
FORE
VIN7
FORE
VIN6
FORE

SCHEMATIC DIAGRAM - 8

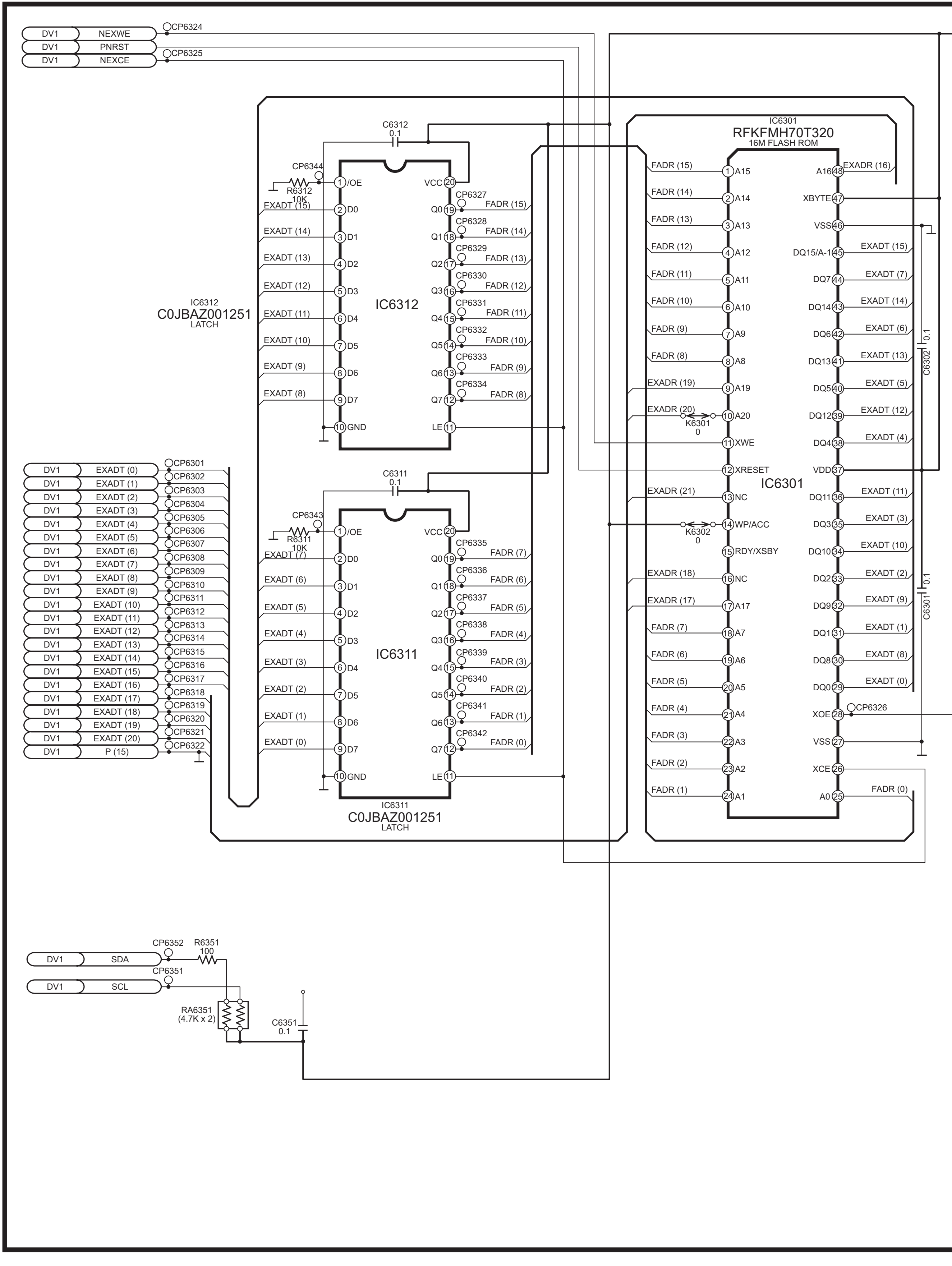
B DVD MODULE 2 (DV1) CIRCUIT

: +B SIGNAL LINE


C3051 0.1
IC3051
C3ABPG000068
64M RAM
1 VDD1
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10/AP
23 A0
24 A1
25 A2
26 A3
27 VDD
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
UDQM 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
IC3051
MDQ(0)
MDQ(1)
MDQ(2)
MDQ(3)
MDQ(4)
MDQ(5)
MDQ(6)
MDQ(7)
MDQ(15)
MDQ(14)
MDQ(13)
C3055 0.1
MDQ(12)
MDQ(11)
MDQ(10)
MDQ(9)
C3054 0.1
MDQ(8)
C3052 0.1
DQM(0)
XWE
XCAS
XRAS
XCSM
BA0
BA1
MA(10)
MA(0)
MA(1)
MA(2)
MA(3)
DQM(1)
MA(11)
MA(9)
MA(8)
MA(7)
MA(6)
MA(5)
MA(4)
C3053 0.1
C3061 0.1
IC3061
C3ABPG000068
64M RAM
1 VDD1
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10/AP
23 A0
24 A1
25 A2
26 A3
27 VDD
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
UDQM 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
IC3061
MDQ(16)
MDQ(17)
MDQ(18)
MDQ(19)
MDQ(20)
MDQ(21)
MDQ(22)
MDQ(23)
MDQ(31)
MDQ(30)
MDQ(29)
C3065 0.1
MDQ(28)
MDQ(27)
MDQ(26)
MDQ(25)
C3064 0.1
MDQ(24)
C3062 0.1
DQM(2)
XWE
XCAS
XRAS
XCSM
BA0
BA1
MA(10)
MA(0)
MA(1)
MA(2)
MA(3)
DQM(3)
MA(11)
MA(9)
MA(8)
MA(7)
MA(6)
MA(5)
MA(4)
C3063 0.1

B DVD MODULE 2 (HIND) CIRCUIT

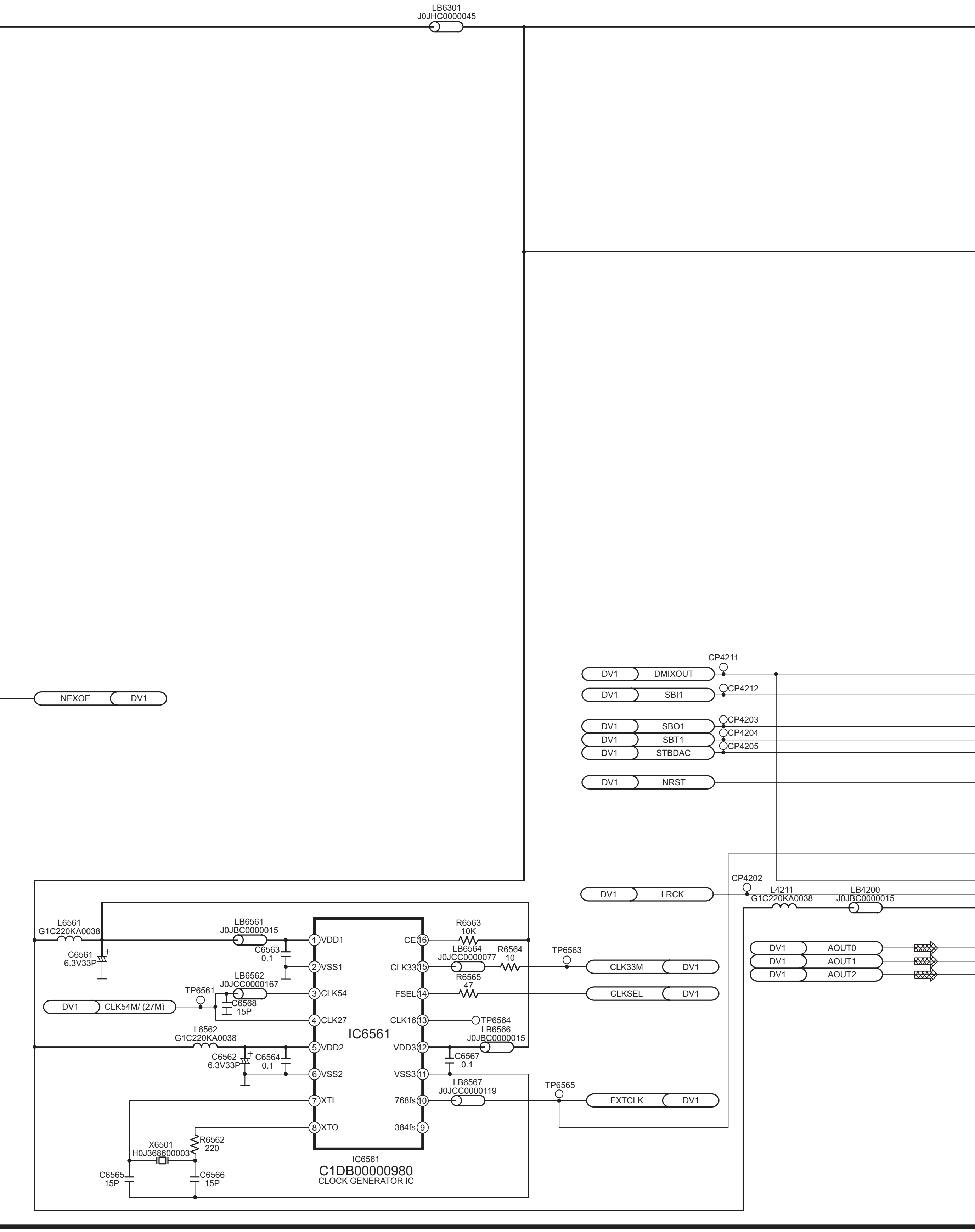
: +B SIGNAL LINE


DV1 NEXWE
DV1 PNRST
DV1 NEXCE
CP6324
CP6325
DV1 EXADT (0) … DV1 EXADT (20)
DV1 P (15)
CP6301 … CP6322
IC6312
C0JBAZ001251
LATCH
C6312
0.1
CP6344
R6312
10K
1 /OE
2 D0
3 D1
4 D2
5 D3
6 D4
7 D5
8 D6
9 D7
10 GND
VCC 20
Q0 19
Q1 18
Q2 17
Q3 16
Q4 15
Q5 14
Q6 13
Q7 12
LE 11
EXADT (15)
EXADT (14)
EXADT (13)
EXADT (12)
EXADT (11)
EXADT (10)
EXADT (9)
EXADT (8)
CP6327 FADR (15)
CP6328 FADR (14)
CP6329 FADR (13)
CP6330 FADR (12)
CP6331 FADR (11)
CP6332 FADR (10)
CP6333 FADR (9)
CP6334 FADR (8)
IC6311
C0JBAZ001251
LATCH
C6311
0.1
CP6343
R6311
10K
EXADT (7)
EXADT (6)
EXADT (5)
EXADT (4)
EXADT (3)
EXADT (2)
EXADT (1)
EXADT (0)
CP6335 FADR (7)
CP6336 FADR (6)
CP6337 FADR (5)
CP6338 FADR (4)
CP6339 FADR (3)
CP6340 FADR (2)
CP6341 FADR (1)
CP6342 FADR (0)
IC6301
RFKFMH70T320
16M FLASH ROM
FADR (15) 1 A15
FADR (14) 2 A14
FADR (13) 3 A13
FADR (12) 4 A12
FADR (11) 5 A11
FADR (10) 6 A10
FADR (9) 7 A9
FADR (8) 8 A8
EXADR (19) 9 A19
EXADR (20) 10 A20
K6301
0
11 XWE
12 XRESET
EXADR (21) 13 NC
14 WP/ACC
K6302
0
15 RDY/XSBY
EXADR (18) 16 NC
EXADR (17) 17 A17
FADR (7) 18 A7
FADR (6) 19 A6
FADR (5) 20 A5
FADR (4) 21 A4
FADR (3) 22 A3
FADR (2) 23 A2
FADR (1) 24 A1
A16 48 EXADR (16)
XBYTE 47
VSS 46
DQ15/A-1 45 EXADT (15)
DQ7 44 EXADT (7)
DQ14 43 EXADT (14)
DQ6 42 EXADT (6)
DQ13 41 EXADT (13)
DQ5 40 EXADT (5)
DQ12 39 EXADT (12)
DQ4 38 EXADT (4)
VDD 37
DQ11 36 EXADT (11)
DQ3 35 EXADT (3)
DQ10 34 EXADT (10)
DQ2 33 EXADT (2)
DQ9 32 EXADT (9)
DQ1 31 EXADT (1)
DQ8 30 EXADT (8)
DQ0 29 EXADT (0)
XOE 28 CP6326
VSS 27
XCE 26
A0 25 FADR (0)
C6302
0.1
C6301
0.1
CP6352
R6351
100
DV1 SDA
CP6351
DV1 SCL
RA6351
(4.7K x 2)
C6351
0.1

SCHEMATIC DIAGRAM - 10

B DVD MODULE 2 (HIND) CIRCUIT

——— : +B SIGNAL LINE ⇨ : DVD (AUDIO) SIGNAL LINE



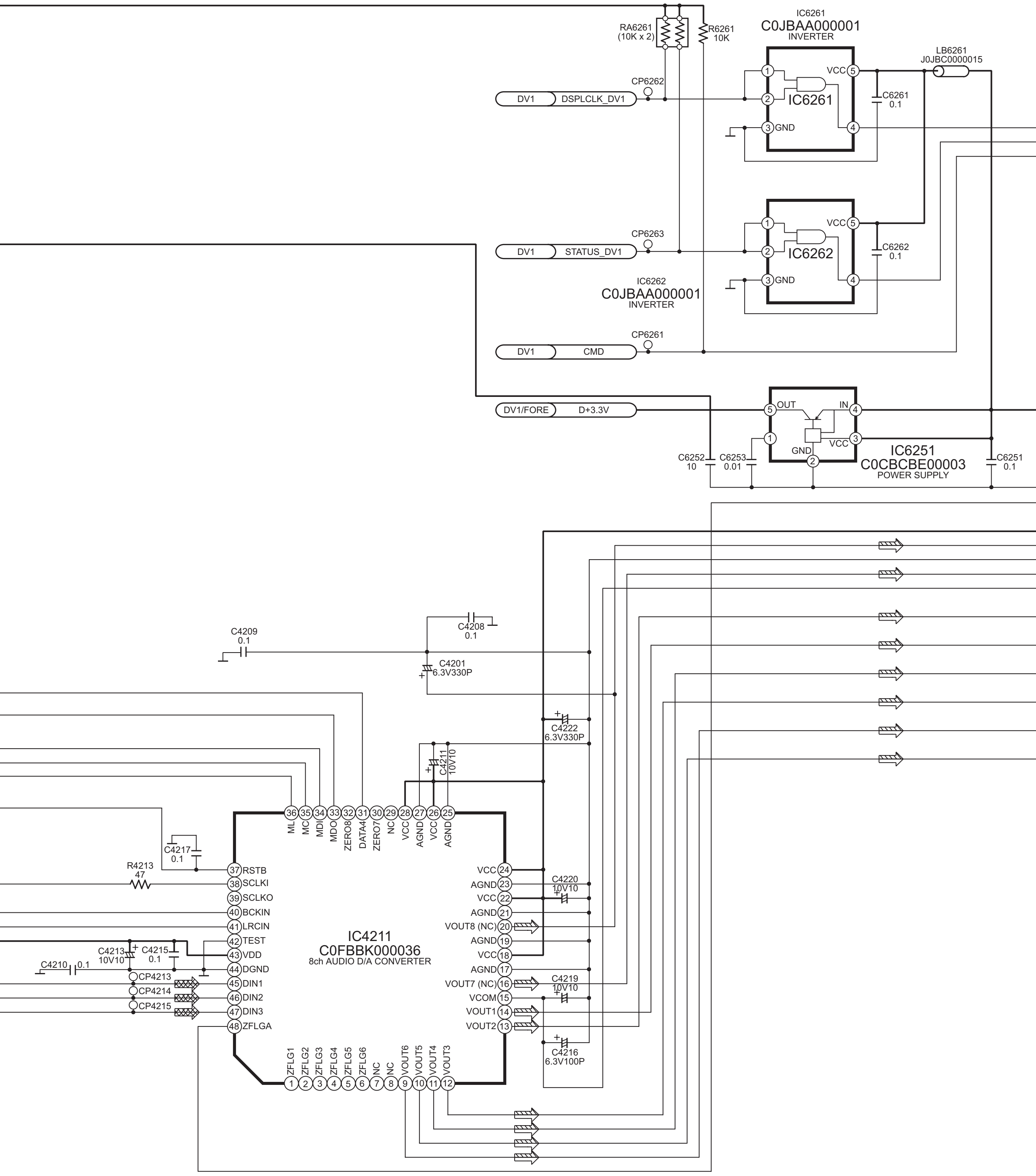
LB6301
J0JHC0000045
DV1 DMIXOUT
CP4211
DV1 SBI1
CP4212
NEXOE DV1
DV1 SBO1
CP4203
DV1 SBT1
CP4204
DV1 STBDAC
CP4205
DV1 NRST
CP4202
DV1 LRCK
L4211
G1C220KA0038
LB4200
J0JBC0000015
L6561
G1C220KA0038
C6561
6.3V33P
LB6561
J0JBC0000015
C6563
0.1
LB6562
J0JCC0000167
TP6561
C6568
15P
DV1 CLK54M/ (27M)
L6562
G1C220KA0038
C6562
6.3V33P
C6564
0.1
X6501
H0J368600003
R6562
220
C6565
15P
C6566
15P
1 VDD1
2 VSS1
3 CLK54
4 CLK27
5 VDD2
6 VSS2
7 XTI
8 XTO
IC6561
CE 16
CLK33 15
FSEL 14
CLK16 13
VDD3 12
VSS3 11
768fs 10
384fs 9
R6563
10K
LB6564
J0JCC0000077
R6564
10
R6565
47
TP6563
CLK33M DV1
CLKSEL DV1
TP6564
LB6566
J0JBC0000015
C6567
0.1
LB6567
J0JCC0000119
TP6565
EXTCLK DV1
DV1 AOUT0
DV1 AOUT1
DV1 AOUT2
IC6561
C1DB00000980
CLOCK GENERATOR IC

B DVD MODULE 2 (HIND) CIRCUIT

: +B SIGNAL LINE

: DVD (AUDIO) SIGNAL LINE

: MAIN SIGNAL LINE


RA6261
(10K x 2)
R6261
10K
IC6261
C0JBAA000001
INVERTER
LB6261
J0JBC0000015
CP6262
DV1
DSPLCLK_DV1
VCC
IC6261
GND
C6261
0.1
CP6263
DV1
STATUS_DV1
IC6262
C6262
0.1
IC6262
C0JBAA000001
INVERTER
CP6261
DV1
CMD
DV1/FORE
D+3.3V
OUT
IN
GND
VCC
IC6251
C0CBCBE00003
POWER SUPPLY
C6252
10
C6253
0.01
C6251
0.1
C4208
0.1
C4209
0.1
C4201
6.3V330P
C4222
6.3V330P
C4211
10V10
ML
MC
MDI
MDO
ZERO8
DATA4
ZERO7
NC
VCC
AGND
VCC
AGND
C4217
0.1
R4213
47
RSTB
SCLKI
SCLKO
BCKIN
LRCIN
TEST
VDD
DGND
DIN1
DIN2
DIN3
ZFLGA
C4213
10V10
C4215
0.1
C4210
0.1
CP4213
CP4214
CP4215
IC4211
C0FBBK000036
8ch AUDIO D/A CONVERTER
VCC
AGND
VCC
AGND
VOUT8 (NC)
AGND
VCC
AGND
VOUT7 (NC)
VCOM
VOUT1
VOUT2
C4220
10V10
C4219
10V10
C4216
6.3V100P
ZFLG1
ZFLG2
ZFLG3
ZFLG4
ZFLG5
ZFLG6
NC
NC
VOUT6
VOUT5
VOUT4
VOUT3

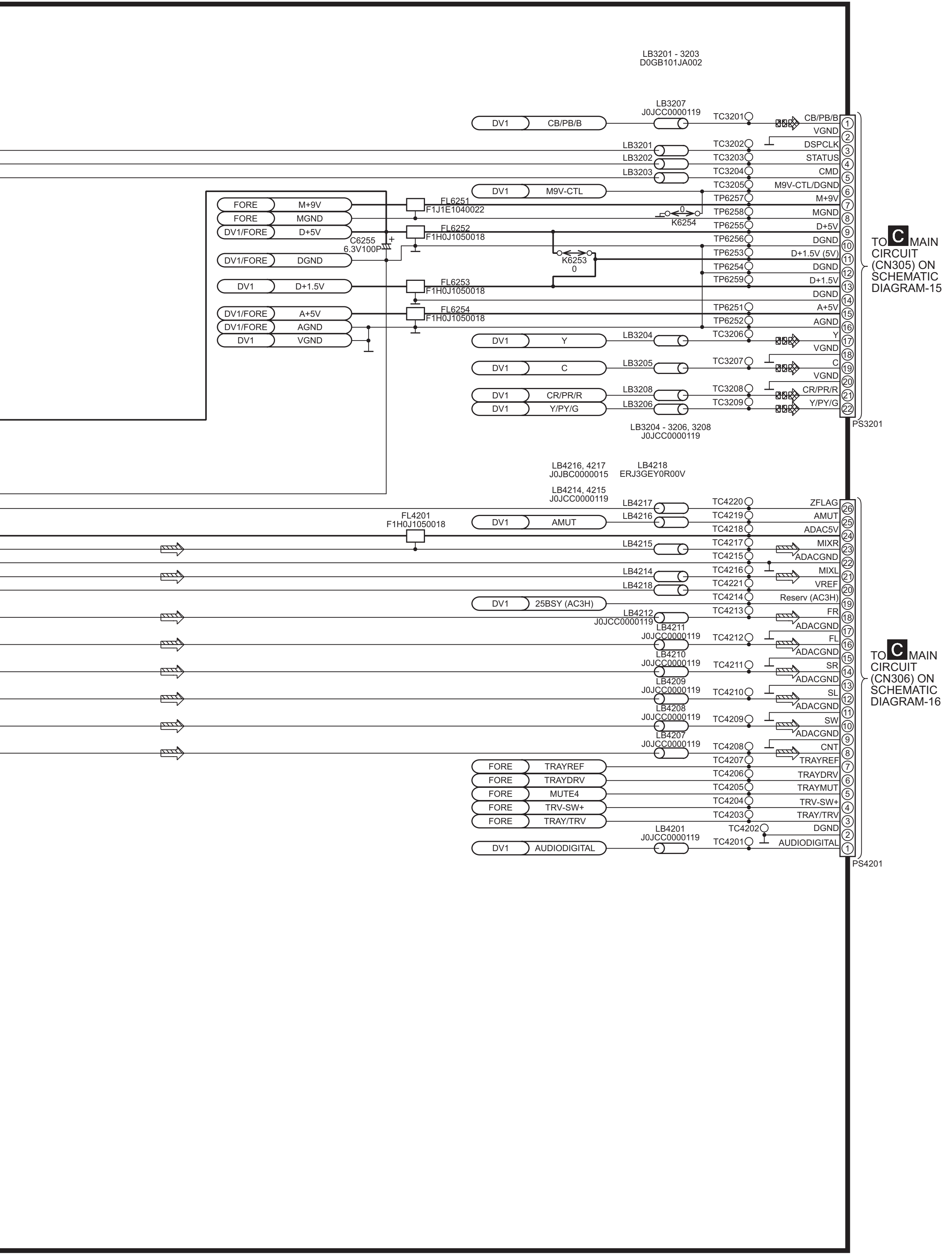
SCHEMATIC DIAGRAM - 12

B DVD MODULE 2 (HIND) CIRCUIT

―― : +B SIGNAL LINE

▨⇨ : DVD (VIDEO) SIGNAL LINE

⇨ : MAIN SIGNAL LINE


LB3201 - 3203
D0GB101JA002
LB3207
J0JCC0000119
DV1 CB/PB/B
DV1 M9V-CTL
FORE M+9V
FORE MGND
DV1/FORE D+5V
DV1/FORE DGND
DV1 D+1.5V
DV1/FORE A+5V
DV1/FORE AGND
DV1 VGND
DV1 Y
DV1 C
DV1 CR/PR/R
DV1 Y/PY/G
FL6251
F1J1E1040022
FL6252
F1H0J1050018
C6255
6.3V100P
K6254
K6253
0
FL6253
F1H0J1050018
FL6254
F1H0J1050018
LB3201
LB3202
LB3203
LB3204
LB3205
LB3208
LB3206
TC3201
TC3202
TC3203
TC3204
TC3205
TP6257
TP6258
TP6255
TP6256
TP6253
TP6254
TP6259
TP6251
TP6252
TC3206
TC3207
TC3208
TC3209
CB/PB/B
VGND
DSPCLK
STATUS
CMD
M9V-CTL/DGND
M+9V
MGND
D+5V
DGND
D+1.5V (5V)
DGND
D+1.5V
DGND
A+5V
AGND
Y
VGND
C
VGND
CR/PR/R
Y/PY/G
PS3201
LB3204 - 3206, 3208
J0JCC0000119
TO C MAIN CIRCUIT (CN305) ON SCHEMATIC DIAGRAM-15
LB4216, 4217
J0JBC0000015
LB4218
ERJ3GEY0R00V
LB4214, 4215
J0JCC0000119
FL4201
F1H0J1050018
DV1 AMUT
DV1 25BSY (AC3H)
LB4217
LB4216
LB4215
LB4214
LB4218
LB4212
J0JCC0000119
LB4211
J0JCC0000119
LB4210
J0JCC0000119
LB4209
J0JCC0000119
LB4208
J0JCC0000119
LB4207
J0JCC0000119
FORE TRAYREF
FORE TRAYDRV
FORE MUTE4
FORE TRV-SW+
FORE TRAY/TRV
LB4201
J0JCC0000119
DV1 AUDIODIGITAL
TC4220
TC4219
TC4218
TC4217
TC4215
TC4216
TC4221
TC4214
TC4213
TC4212
TC4211
TC4210
TC4209
TC4208
TC4207
TC4206
TC4205
TC4204
TC4203
TC4202
TC4201
ZFLAG
AMUT
ADAC5V
MIXR
ADACGND
MIXL
VREF
Reserv (AC3H)
FR
ADACGND
FL
ADACGND
SR
ADACGND
SL
ADACGND
SW
ADACGND
CNT
TRAYREF
TRAYDRV
TRAYMUT
TRV-SW+
TRAY/TRV
DGND
AUDIODIGITAL
PS4201
TO C MAIN CIRCUIT (CN306) ON SCHEMATIC DIAGRAM-16

SCHEMATIC DIAGRAM - 13

—— : +B SIGNAL LINE

⇨ : FM SIGNAL LINE

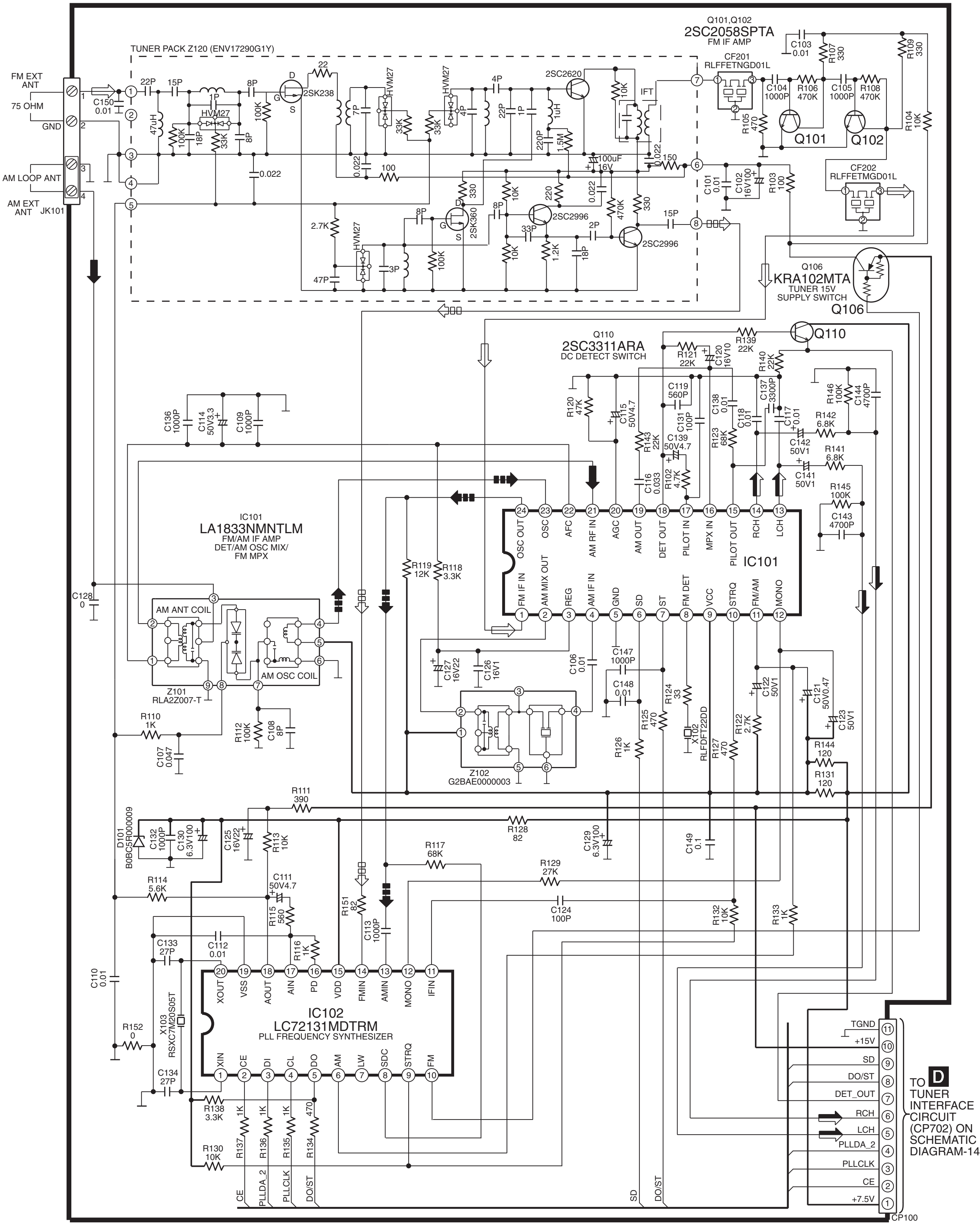
➡ : AM SIGNAL LINE

⇨ : FM/AM SIGNAL LINE

▯▯⇨ : FM OSC SIGNAL LINE

▮▮➡ : AM OSC SIGNAL LINE

K TUNER CIRCUIT



TUNER PACK Z120 (ENV17290G1Y)
FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK101
C150 0.01
22P
15P
1P
8P
47uH
100K
18P
33K
HVM27
100K
0.022
2SK238
D
G
S
22
7P
4P
33K
1P
22P
1uH
220P
1.5M
100uF 16V
0.022
100
2SC2620
10K
IFT
0.022
150
2.7K
47P
3P
100K
2SK360
330
10K
8P
2SC2996
220
0.022
470K
330
15P
33P
1.2K
18P
2P
2SC2996
Q101,Q102
2SC2058SPTA
FM IF AMP
CF201
RLFFETNGD01L
C103 0.01
R107 330
R109 330
C104 1000P
R106 470K
C105 1000P
R108 470K
R105 470
Q101
Q102
R104 10K
C101 0.01
C102 16V100
R103 100
CF202
RLFFETMGD01L
Q106
KRA102MTA
TUNER 15V SUPPLY SWITCH
Q110
2SC3311ARA
DC DETECT SWITCH
R139 22K
R121 22K
C120 16V10
R140 22K
R120 47K
C115 50V4.7
C119 560P
C131 100P
C138 0.01
C137 3300P
C117 0.01
R146 100K
C144 4700P
R143 22K
C139 50V4.7
R123 68K
C118 0.01
R142 6.8K
C142 50V1
R141 6.8K
C141 50V1
C116 0.033
R102 4.7K
R145 100K
C143 4700P
C136 1000P
C114 50V3.3
C109 1000P
IC101
LA1833NMNTLM
FM/AM IF AMP DET/AM OSC MIX/ FM MPX
OSC OUT
OSC
AFC
AM RF IN
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
RCH
LCH
FM IF IN
AM MIX OUT
REG
AM IF IN
GND
SD
ST
FM DET
VCC
STRQ
FM/AM
MONO
R119 12K
R118 3.3K
C128 0
AM ANT COIL
AM OSC COIL
Z101
RLA2Z007-T
R110 1K
C107 0.047
R112 100K
C108 8P
C127 16V22
C126 16V1
C106 0.01
C147 1000P
C148 0.01
R124 33
R125 470
R126 1K
X102
RLFDFT22DD
R127 470
R122 2.7K
C122 50V1
C121 50V0.47
C123 50V1
R144 120
R131 120
Z102
G2BAE0000003
R111 390
R128 82
D101
B0BC5R000009
C132 1000P
C130 6.3V100
C125 16V22
R113 10K
C129 6.3V100
C149 0.1
R117 68K
R129 27K
R114 5.6K
C111 50V4.7
R115 560
R151 82
C113 1000P
C124 100P
R132 10K
R133 1K
C133 27P
C112 0.01
R116 1K
C110 0.01
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
MONO
IFIN
XIN
CE
DI
CL
DO
AM
LW
SDC
STRQ
FM
R152 0
X103
RSXC7M20S05T
C134 27P
R138 3.3K
R130 10K
R137 1K
R136 1K
R135 1K
R134 470
CE
PLLDA_2
PLLCLK
DO/ST
SD
DO/ST
TGND
+15V
SD
DO/ST
DET_OUT
RCH
LCH
PLLDA_2
PLLCLK
CE
+7.5V
CP100
TO D TUNER INTERFACE CIRCUIT (CP702) ON SCHEMATIC DIAGRAM-14

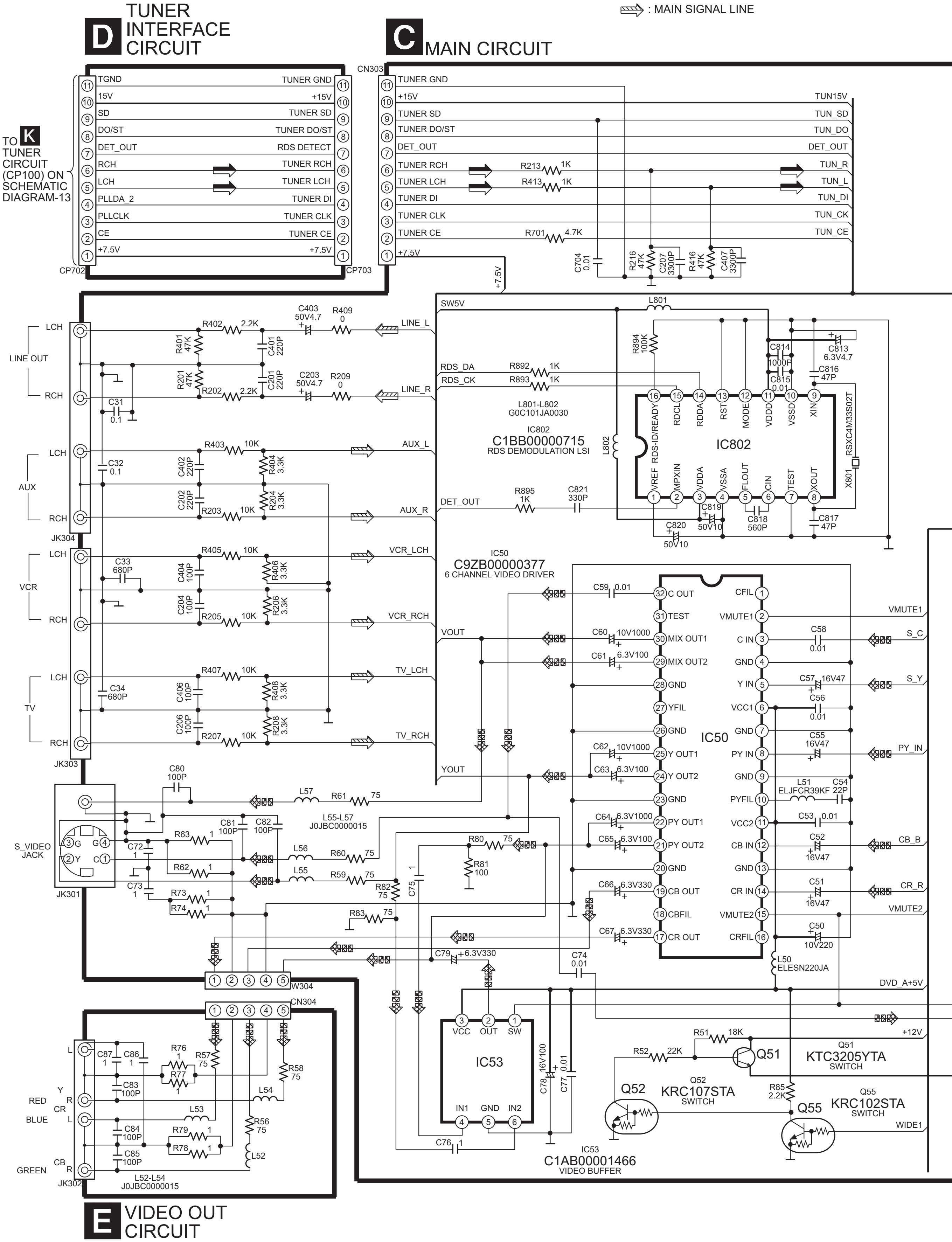
SCHEMATIC DIAGRAM - 14

— : +B SIGNAL LINE

➡ : FM/AM SIGNAL LINE

▨ : DVD VIDEO SIGNAL LINE

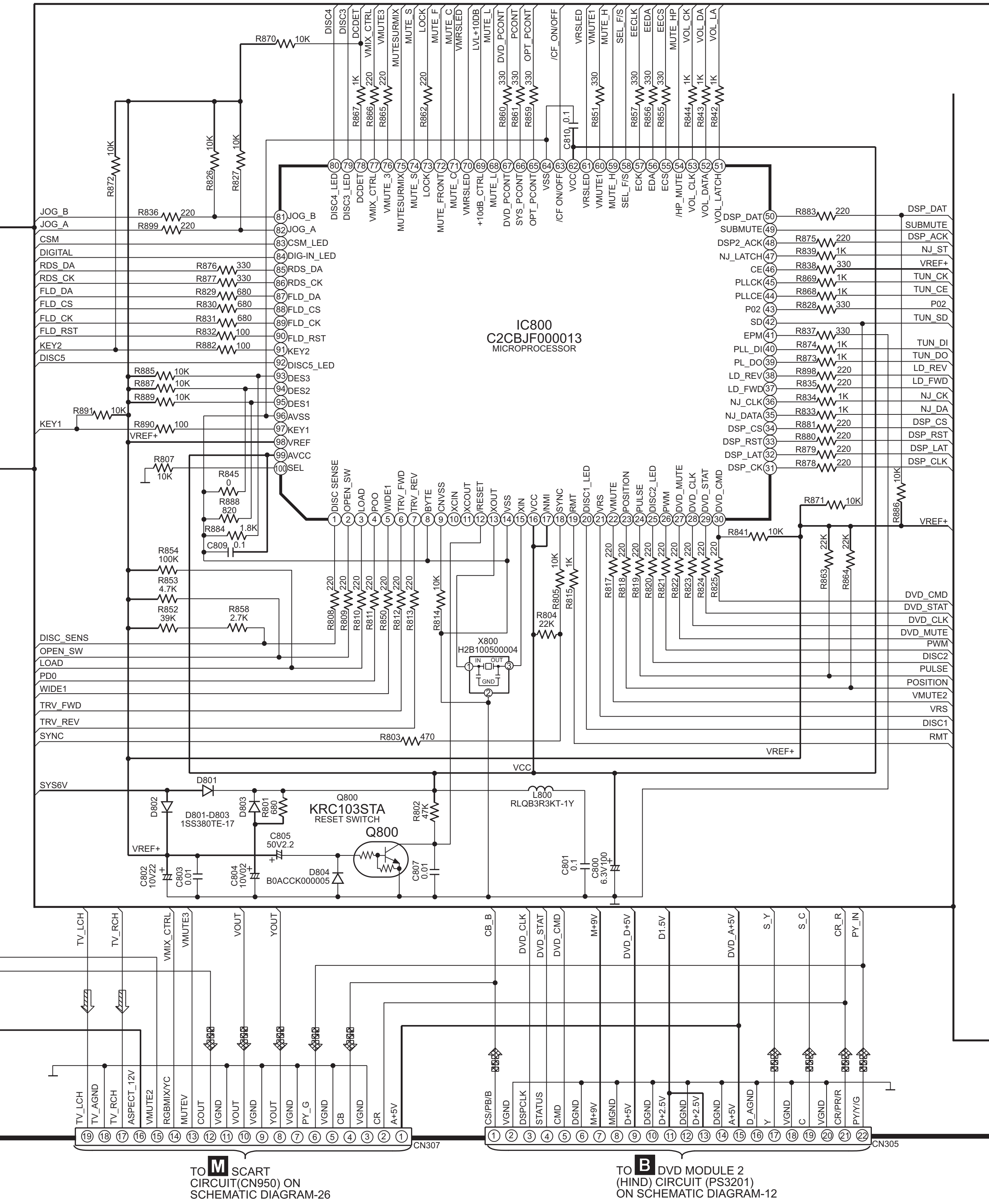
▨ : MAIN SIGNAL LINE


D
TUNER INTERFACE CIRCUIT
C
MAIN CIRCUIT
E
VIDEO OUT CIRCUIT
TO K TUNER CIRCUIT (CP100) ON SCHEMATIC DIAGRAM-13
CP702
CP703
CN303
TGND
15V
SD
DO/ST
DET_OUT
RCH
LCH
PLLDA_2
PLLCLK
CE
+7.5V
TUNER GND
+15V
TUNER SD
TUNER DO/ST
RDS DETECT
TUNER RCH
TUNER LCH
TUNER DI
TUNER CLK
TUNER CE
TUN15V
TUN_SD
TUN_DO
DET_OUT
TUN_R
TUN_L
TUN_DI
TUN_CK
TUN_CE
R213 1K
R413 1K
R701 4.7K
C704 0.01
R216 47K
C207 3300P
R416 47K
C407 3300P
SW5V
L801
R894 100K
C814 1000P
C815 0.01
C813 6.3V4.7
C816 47P
RDS_DA
RDS_CK
R892 1K
R893 1K
L801-L802 G0C101JA0030
IC802
C1BB00000715
RDS DEMODULATION LSI
L802
RDS-ID/READY
RDCL
RDDA
RST
MODE
VDDD
VSSD
XIN
VREF
MPXIN
VDDA
VSSA
FLOUT
CIN
TEST
XOUT
RSXC4M33S02T
X801
R895 1K
C821 330P
C819 50V10
C818 560P
C817 47P
C820 50V10
LINE OUT
LCH
RCH
R402 2.2K
R401 47K
C401 220P
C403 50V4.7
R409 0
LINE_L
R201 47K
C201 220P
R202 2.2K
C203 50V4.7
R209 0
LINE_R
C31 0.1
AUX
R403 10K
C402 220P
R404 3.3K
AUX_L
C32 0.1
C202 220P
R204 3.3K
R203 10K
AUX_R
JK304
VCR
C33 680P
R405 10K
C404 100P
R406 3.3K
VCR_LCH
C204 100P
R206 3.3K
R205 10K
VCR_RCH
TV
C34 680P
R407 10K
C406 100P
R408 3.3K
TV_LCH
C206 100P
R208 3.3K
R207 10K
TV_RCH
JK303
IC50
C9ZB00000377
6 CHANNEL VIDEO DRIVER
C OUT
TEST
MIX OUT1
MIX OUT2
GND
YFIL
Y OUT1
Y OUT2
PY OUT1
PY OUT2
CB OUT
CBFIL
CR OUT
CFIL
VMUTE1
C IN
Y IN
VCC1
PY IN
PYFIL
VCC2
CB IN
CR IN
VMUTE2
CRFIL
C59 0.01
VOUT
C60 10V1000
C61 6.3V100
YOUT
C62 10V1000
C63 6.3V100
C64 6.3V1000
C65 6.3V100
C66 6.3V330
C67 6.3V330
C58 0.01
S_C
C57 16V47
S_Y
C56 0.01
C55 16V47
PY_IN
L51 ELJFCR39KF
C54 22P
C53 0.01
C52 16V47
CB_B
C51 16V47
CR_R
VMUTE2
C50 10V220
L50 ELESN220JA
DVD_A+5V
C80 100P
L57
R61 75
L55-L57 J0JBC0000015
S_VIDEO JACK
JK301
C81 100P
C82 100P
R63 1
C72 1
L56
R60 75
R62 1
L55
R59 75
C73 1
R73 1
R74 1
R80 75
R81 100
R82 75
C75 1
R83 75
C79 6.3V330
C74 0.01
W304
CN304
IC53
VCC
OUT
SW
IN1
GND
IN2
C78 16V100
C77 0.01
C76 1
IC53
C1AB00001466
VIDEO BUFFER
R51 18K
R52 22K
Q51
KTC3205YTA
SWITCH
+12V
Q52
KRC107STA
SWITCH
R85 2.2K
Q55
KRC102STA
SWITCH
WIDE1
C87 1
C86 1
R76 1
R77 1
R57 75
R58 75
C83 100P
L54
L53
R56 75
C84 100P
R79 1
R78 1
C85 100P
L52
L52-L54 J0JBC0000015
JK302
L
Y
RED
CR
BLUE
CB
GREEN
+7.5V

SCHEMATIC DIAGRAM - 15

— : +B SIGNAL LINE   : DVD VIDEO SIGNAL LINE   : MAIN SIGNAL LINE

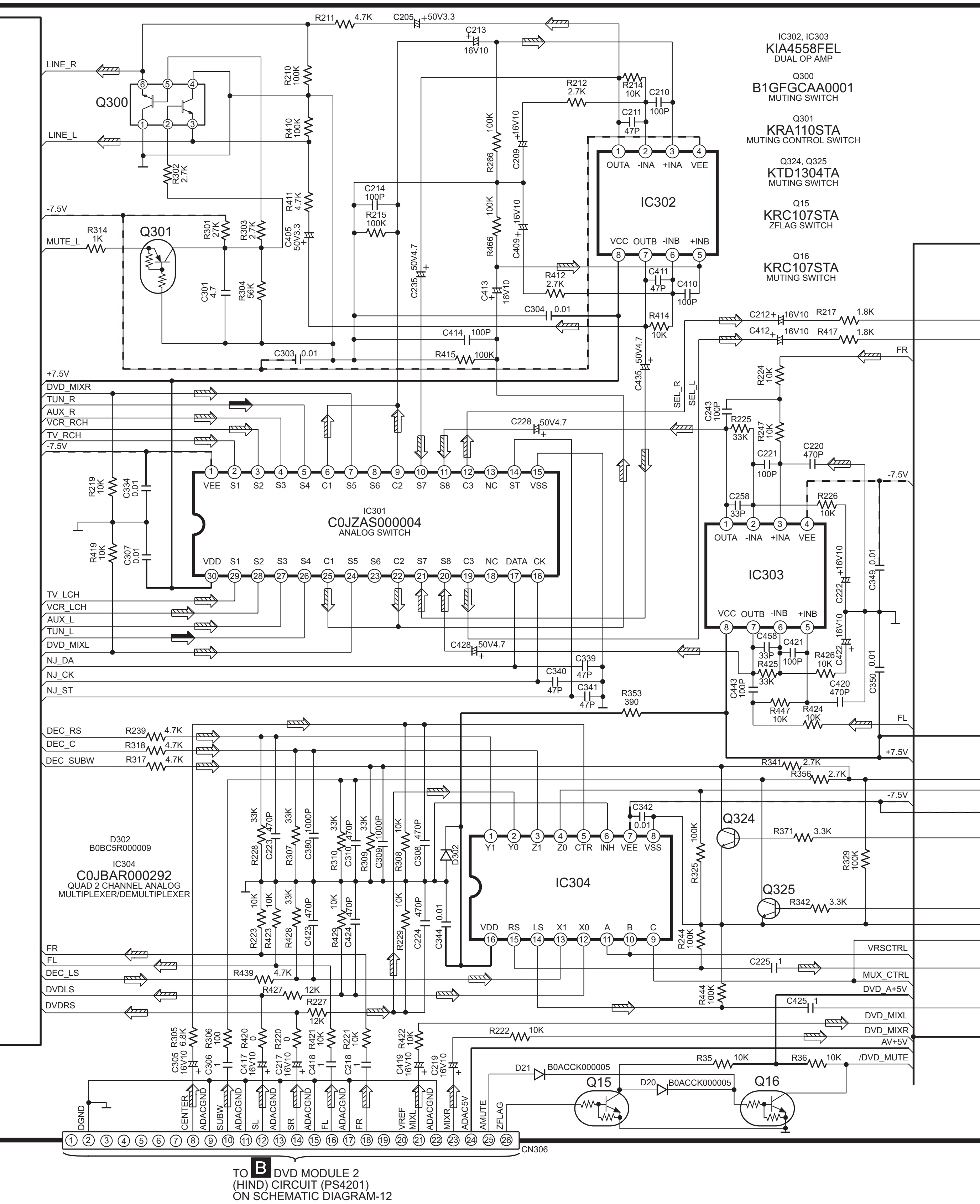
C MAIN CIRCUIT


IC800
C2CBJF000013
MICROPROCESSOR
DISC4 DISC3 DCDET VMIX_CTRL VMUTE3 MUTESURMIX MUTE_S LOCK MUTE_F MUTE_C VMRSLED LVL+10DB MUTE_L DVD_PCONT PCONT OPT_PCONT /CF_ON/OFF VRSLED VMUTE1 MUTE_H SEL_F/S EECLK EEDA EECS MUTE_HP VOL_CK VOL_DA VOL_LA
R870 10K
R867 1K R866 220 R865 220 R862 220 R860 330 R861 330 R859 330 C810 0.1 R851 330 R857 330 R856 330 R855 330 R844 1K R843 1K R842 1K
R872 10K R826 10K R827 10K
80 DISC4_LED 79 DISC3_LED 78 DCDET 77 VMIX_CTRL 76 VMUTE_3 75 MUTESURMIX 74 MUTE_S 73 LOCK 72 MUTE_FRONT 71 MUTE_C 70 VMRSLED 69 +10dB_CTRL 68 MUTE_L 67 DVD_PCONT 66 SYS_PCONT 65 OPT_PCONT 64 VSS 63 /CF ON/OFF 62 VCC 61 VRSLED 60 VMUTE1 59 MUTE_H 58 SEL_F/S 57 ECK 56 EDA 55 ECS 54 /HP_MUTE 53 VOL_CLK 52 VOL_DATA 51 VOL_LATCH
JOG_B R836 220 81 JOG_B
JOG_A R899 220 82 JOG_A
CSM 83 CSM_LED
DIGITAL 84 DIG-IN_LED
RDS_DA R876 330 85 RDS_DA
RDS_CK R877 330 86 RDS_CK
FLD_DA R829 680 87 FLD_DA
FLD_CS R830 680 88 FLD_CS
FLD_CK R831 680 89 FLD_CK
FLD_RST R832 100 90 FLD_RST
KEY2 R882 100 91 KEY2
DISC5 92 DISC5_LED
R885 10K 93 DES3
R887 10K 94 DES2
R889 10K 95 DES1
R891 10K 96 AVSS
KEY1 R890 100 97 KEY1
VREF+ 98 VREF
99 AVCC
R807 10K 100 SEL
R845 0 R888 820 R884 1.8K C809 0.1
DSP_DAT 50 R883 220 DSP_DAT
SUBMUTE 49 SUBMUTE
DSP2_ACK 48 R875 220 DSP_ACK
NJ_LATCH 47 R839 1K NJ_ST
CE 46 R838 330 VREF+
PLLCK 45 R869 1K TUN_CK
PLLCE 44 R868 1K TUN_CE
P02 43 R828 330 P02
SD 42 TUN_SD
EPM 41 R837 330
PLL_DI 40 R874 1K TUN_DI
PL_DO 39 R873 1K TUN_DO
LD_REV 38 R898 220 LD_REV
LD_FWD 37 R835 220 LD_FWD
NJ_CLK 36 R834 1K NJ_CK
NJ_DATA 35 R833 1K NJ_DA
DSP_CS 34 R881 220 DSP_CS
DSP_RST 33 R880 220 DSP_RST
DSP_LAT 32 R879 220 DSP_LAT
DSP_CK 31 R878 220 DSP_CLK
R886 10K R871 10K VREF+
1 DISC SENSE 2 OPEN_SW 3 LOAD 4 POO 5 WIDE1 6 TRV_FWD 7 TRV_REV 8 BYTE 9 CNVSS 10 XCIN 11 XCOUT 12 /RESET 13 XOUT 14 VSS 15 XIN 16 VCC 17 /NMI 18 SYNC 19 RMT 20 DISC1_LED 21 VRS 22 VMUTE 23 POSITION 24 PULSE 25 DISC2_LED 26 PWM 27 DVD_MUTE 28 DVD_CLK 29 DVD_STAT 30 DVD_CMD
R841 10K R863 22K R864 22K
R854 100K R853 4.7K R852 39K R858 2.7K
R808 220 R809 220 R810 220 R811 220 R850 220 R812 220 R813 220 R814 10K R805 10K R815 1K R804 22K
R817 220 R818 220 R819 220 R820 220 R821 220 R822 220 R823 220 R824 220 R825 220
X800 H2B100500004 IN OUT GND
DISC_SENS OPEN_SW LOAD PD0 WIDE1 TRV_FWD TRV_REV SYNC
R803 470
DVD_CMD DVD_STAT DVD_CLK DVD_MUTE PWM DISC2 PULSE POSITION VMUTE2 VRS DISC1 RMT
VREF+ VCC
SYS6V D801 D802 D803 D801-D803 1SS380TE-17 R801 680
Q800 KRC103STA RESET SWITCH
R802 47K C805 50V2.2 VREF+ C802 10V22 C803 0.01 C804 10V02 D804 B0ACCK000005 C807 0.01
L800 RLQB3R3KT-1Y C801 0.1 C800 6.3V100
TV_LCH TV_RCH VMIX_CTRL VMUTE3 VOUT YOUT
CB_B DVD_CLK DVD_STAT DVD_CMD M+9V DVD_D+5V D1.5V DVD_A+5V S_Y S_C CR_R PY_IN
TV_LCH 19 TV_AGND 18 TV_RCH 17 ASPECT_12V 16 VMUTE2 15 RGBMIX/YC 14 MUTEV 13 COUT 12 VGND 11 VOUT 10 VGND 9 YOUT 8 VGND 7 PY_G 6 VGND 5 CB 4 VGND 3 CR 2 A+5V 1
CN307
CS/PB/B 1 VGND 2 DSPCLK 3 STATUS 4 CMD 5 DGND 6 M+9V 7 MGND 8 D+5V 9 DGND 10 D+2.5V 11 DGND 12 D+2.5V 13 DGND 14 A+5V 15 D_AGND 16 Y 17 VGND 18 C 19 VGND 20 CR/PR/R 21 PY/Y/G 22
CN305
TO M SCART CIRCUIT(CN950) ON SCHEMATIC DIAGRAM-26
TO B DVD MODULE 2 (HIND) CIRCUIT (PS3201) ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 16

— : +B SIGNAL LINE — — : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE ⇨ : MAIN SIGNAL LINE

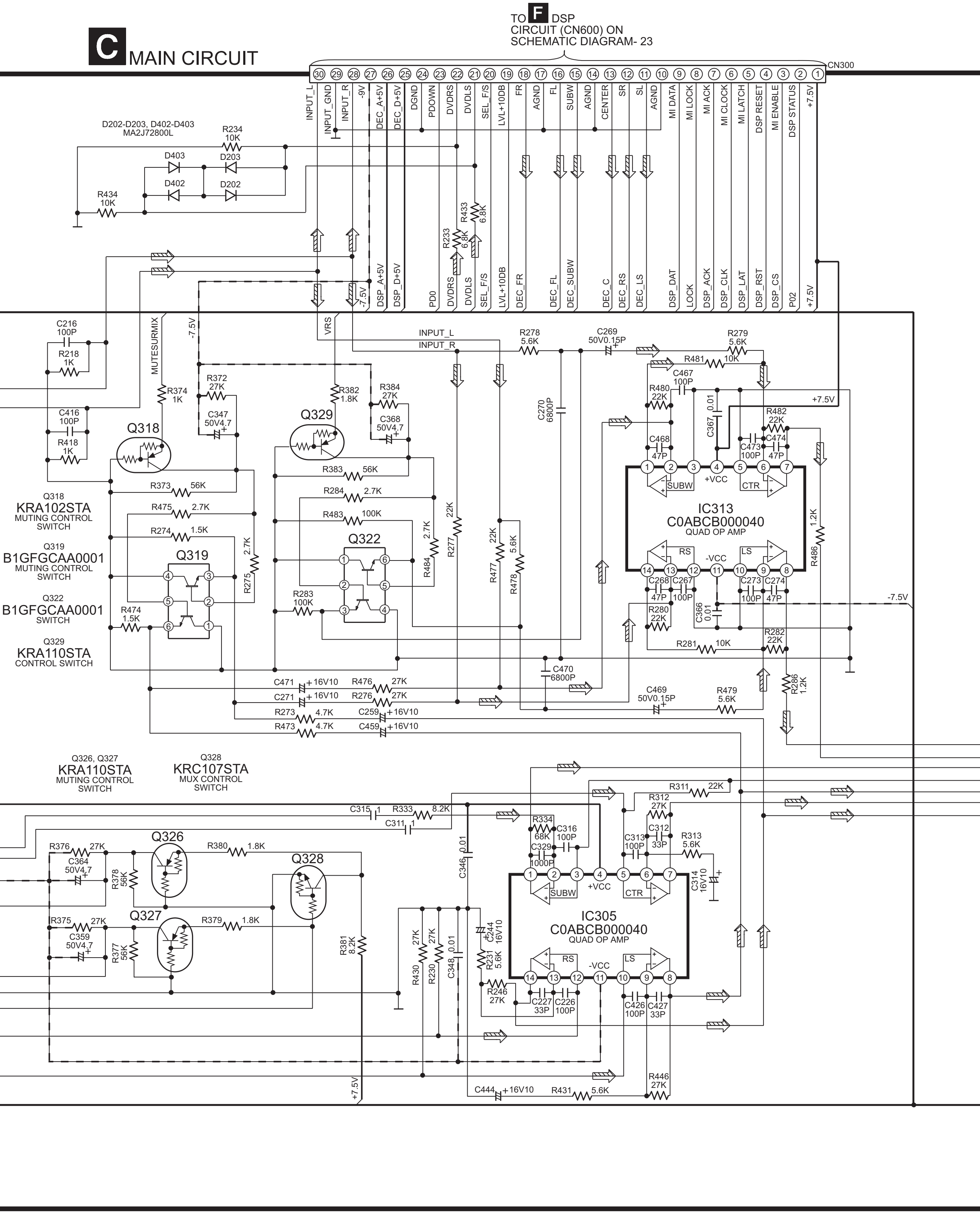
C MAIN CIRCUIT



IC302, IC303
KIA4558FEL
DUAL OP AMP
Q300
B1GFGCAA0001
MUTING SWITCH
Q301
KRA110STA
MUTING CONTROL SWITCH
Q324, Q325
KTD1304TA
MUTING SWITCH
Q15
KRC107STA
ZFLAG SWITCH
Q16
KRC107STA
MUTING SWITCH
D302
B0BC5R000009
IC304
C0JBAR000292
QUAD 2 CHANNEL ANALOG
MULTIPLEXER/DEMULTIPLEXER
IC301
C0JZAS000004
ANALOG SWITCH
IC302
OUTA -INA +INA VEE
VCC OUTB -INB +INB
IC303
OUTA -INA +INA VEE
VCC OUTB -INB +INB
IC304
Y1 Y0 Z1 Z0 CTR INH VEE VSS
VDD RS LS X1 X0 A B C
VEE S1 S2 S3 S4 C1 S5 S6 C2 S7 S8 C3 NC ST VSS
VDD S1 S2 S3 S4 C1 S5 S6 C2 S7 S8 C3 NC DATA CK
Q300
Q301
Q324
Q325
Q15
Q16
LINE_R
LINE_L
-7.5V
MUTE_L
+7.5V
DVD_MIXR
TUN_R
AUX_R
VCR_RCH
TV_RCH
-7.5V
TV_LCH
VCR_LCH
AUX_L
TUN_L
DVD_MIXL
NJ_DA
NJ_CK
NJ_ST
DEC_RS
DEC_C
DEC_SUBW
FR
FL
DEC_LS
DVDLS
DVDRS
SEL_R
SEL_L
FR
FL
+7.5V
-7.5V
-7.5V
VRSCTRL
MUX_CTRL
DVD_A+5V
DVD_MIXL
DVD_MIXR
AV+5V
/DVD_MUTE
R211 4.7K
C205 50V3.3
C213 16V10
R210 100K
R410 100K
R411 4.7K
C405 50V3.3
R302 2.7K
R314 1K
R301 27K
R303 2.7K
C301 4.7
R304 56K
R212 2.7K
R214 10K
C210 100P
C211 47P
R266 100K
C209 16V10
C214 100P
R215 100K
R466 100K
C409 16V10
C235 50V4.7
C413 16V10
R412 2.7K
C411 47P
C410 100P
C304 0.01
R414 10K
C414 100P
C303 0.01
R415 100K
C435 50V4.7
C212 16V10
R217 1.8K
C412 16V10
R417 1.8K
R224 10K
C243 100P
R225 33K
R247 10K
C228 50V4.7
C221 100P
C220 470P
C258 33P
R226 10K
R219 10K
C334 0.01
R419 10K
C307 0.01
C222 16V10
C349 0.01
C422 16V10
C458 33P
C421 100P
R425 33K
R426 10K
C443 100P
C420 470P
C350 0.01
R447 10K
R424 10K
C428 50V4.7
C339 47P
C340 47P
C341 47P
R353 390
R239 4.7K
R318 4.7K
R317 4.7K
R341 2.7K
R356 2.7K
C342 0.01
R228 33K
C223 470P
R307 33K
C380 1000P
R310 33K
C310 470P
R309 33K
C309 1000P
R308 10K
C308 470P
D302
R325 100K
R371 3.3K
R329 100K
R223 10K
R423 10K
R428 33K
C423 470P
R429 10K
C424 470P
R229 10K
C224 470P
C344 0.01
R342 3.3K
R244 100K
C225 1
R439 4.7K
R427 12K
R227 12K
R444 100K
C425 1
R305 6.8K
R306 100
R420 0
R220 0
R421 10K
R221 10K
R422 10K
R222 10K
C305 16V10
C306 1
C417 16V10
C217 16V10
C418 1
C218 1
C419 16V10
C219 16V10
R35 10K
R36 10K
D21 B0ACCK000005
D20 B0ACCK000005
DGND CENTER ADACGND SUBW ADACGND SL ADACGND SR ADACGND FL ADACGND FR VREF MIXL ADACGND MIXR ADAC5V AMUTE ZFLAG
CN306
TO B DVD MODULE 2
(HIND) CIRCUIT (PS4201)
ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 17

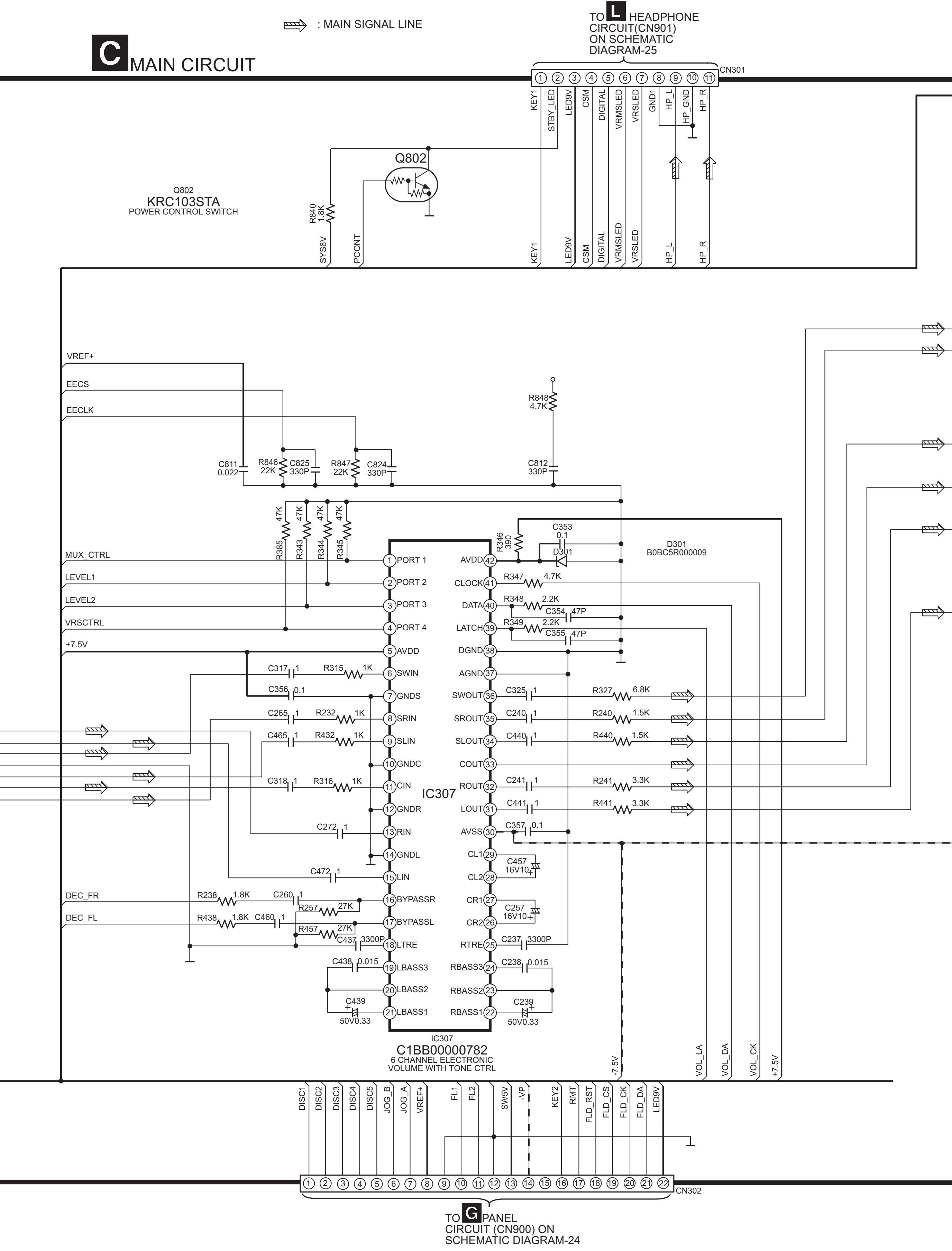
—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE



TO F DSP CIRCUIT (CN600) ON SCHEMATIC DIAGRAM- 23
C MAIN CIRCUIT
CN300
INPUT_L
INPUT_GND
INPUT_R
-9V
DEC_A+5V
DEC_D+5V
DGND
PDOWN
DVDRS
DVDLS
SEL_F/S
LVL+10DB
FR
AGND
FL
SUBW
AGND
CENTER
SR
SL
AGND
MI DATA
MI LOCK
MI ACK
MI CLOCK
MI LATCH
DSP RESET
MI ENABLE
DSP STATUS
+7.5V
D202-D203, D402-D403
MA2J72800L
R234 10K
D403
D203
D402
D202
R434 10K
R433 6.8K
R233 6.8K
-7.5V
DSP_A+5V
DSP_D+5V
PD0
DVDRS
DVDLS
SEL_F/S
LVL+10DB
DEC_FR
DEC_FL
DEC_SUBW
DEC_C
DEC_RS
DEC_LS
DSP_DAT
LOCK
DSP_ACK
DSP_CLK
DSP_LAT
DSP_RST
DSP_CS
P02
+7.5V
C216 100P
R218 1K
C416 100P
R418 1K
MUTESURMIX
-7.5V
VRS
INPUT_L
INPUT_R
R278 5.6K
C269 50V0.15P
R279 5.6K
R481 10K
C467 100P
R480 22K
C367 0.01
+7.5V
R482 22K
C474 47P
C473 100P
C468 47P
C270 6800P
R374 1K
R372 27K
C347 50V4.7
R382 1.8K
R384 27K
C368 50V4.7
Q318
Q329
R373 56K
R383 56K
R284 2.7K
R483 100K
R475 2.7K
R274 1.5K
Q319
Q322
R275 2.7K
R484 2.7K
R277 22K
R477 22K
R478 5.6K
R283 100K
R474 1.5K
Q318
KRA102STA
MUTING CONTROL SWITCH
Q319
B1GFGCAA0001
MUTING CONTROL SWITCH
Q322
B1GFGCAA0001
SWITCH
Q329
KRA110STA
CONTROL SWITCH
IC313
C0ABCB000040
QUAD OP AMP
SUBW
+VCC
CTR
RS
-VCC
LS
R486 1.2K
C268 47P
C267 100P
C273 100P
C274 47P
C366 0.01
-7.5V
R280 22K
R282 22K
R281 10K
C470 6800P
R286 1.2K
C471 16V10
R476 27K
C271 16V10
R276 27K
R273 4.7K
C259 16V10
R473 4.7K
C459 16V10
C469 50V0.15P
R479 5.6K
Q326, Q327
KRA110STA
MUTING CONTROL SWITCH
Q328
KRC107STA
MUX CONTROL SWITCH
R311 22K
C315 1
R333 8.2K
C311 1
R312 27K
R334 68K
C316 100P
C329 1000P
C313 100P
C312 33P
R313 5.6K
C314 16V10
R376 27K
C364 50V4.7
R378 56K
Q326
R380 1.8K
Q328
C346 0.01
R375 27K
C359 50V4.7
R377 56K
Q327
R379 1.8K
R381 8.2K
R430 27K
R230 27K
C348 0.01
C244 16V10
R231 5.6K
IC305
C0ABCB000040
QUAD OP AMP
R246 27K
C227 33P
C226 100P
C426 100P
C427 33P
+7.5V
C444 16V10
R431 5.6K
R446 27K

SCHEMATIC DIAGRAM - 18

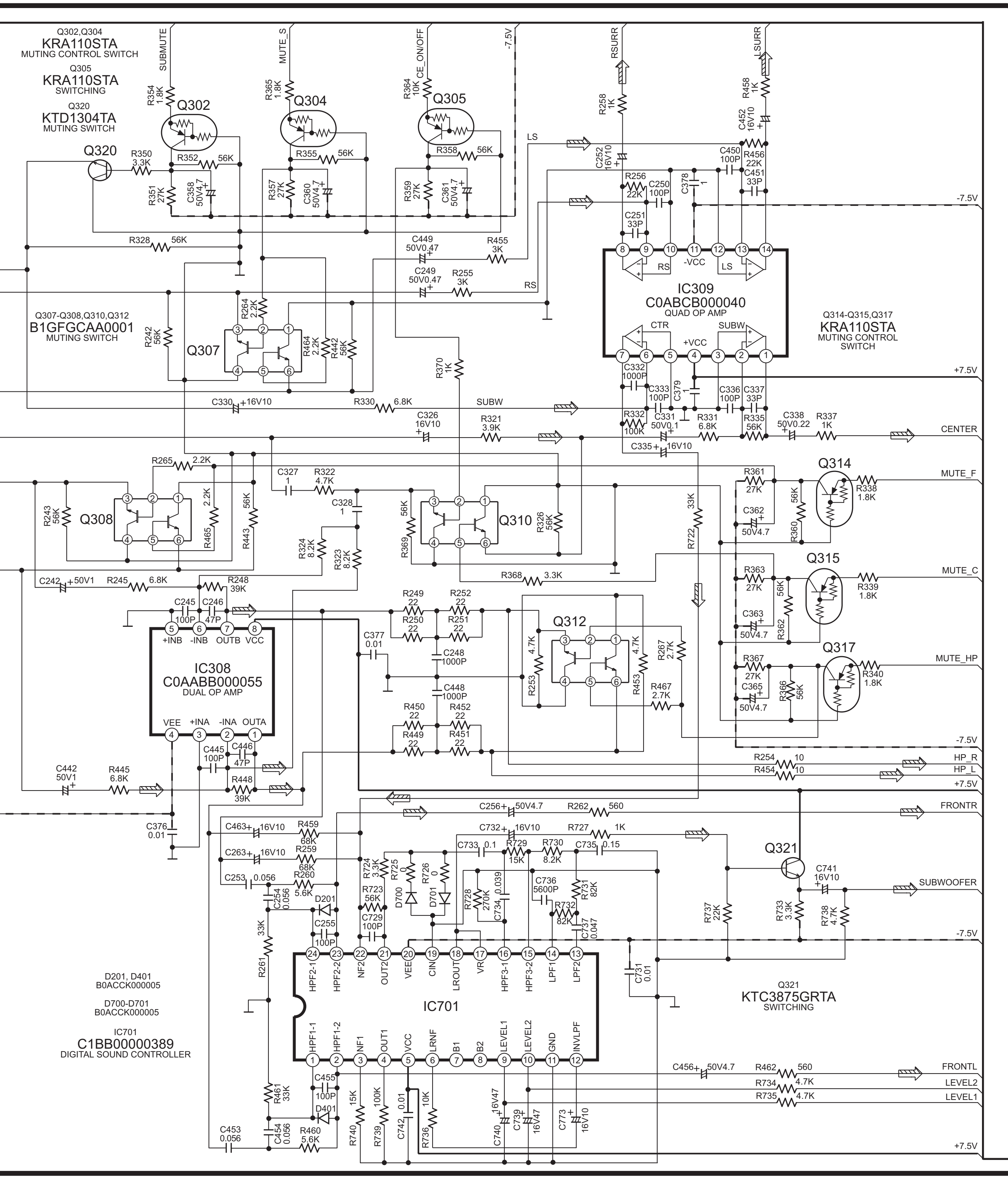
—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE


C MAIN CIRCUIT
TO L HEADPHONE CIRCUIT(CN901) ON SCHEMATIC DIAGRAM-25
CN301
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪
KEY1
STBY_LED
LED9V
CSM
DIGITAL
VRMSLED
VRSLED
GND1
HP_L
HP_GND
HP_R
Q802
Q802
KRC103STA
POWER CONTROL SWITCH
R840
1.8K
SYS6V
PCONT
KEY1
LED9V
CSM
DIGITAL
VRMSLED
VRSLED
HP_L
HP_R
VREF+
EECS
EECLK
R848
4.7K
C811
0.022
R846
22K
C825
330P
R847
22K
C824
330P
C812
330P
R385
47K
R343
47K
R344
47K
R345
47K
R346
390
C353
0.1
D301
D301
B0BC5R000009
MUX_CTRL
LEVEL1
LEVEL2
VRSCTRL
+7.5V
1 PORT 1
2 PORT 2
3 PORT 3
4 PORT 4
5 AVDD
6 SWIN
7 GNDS
8 SRIN
9 SLIN
10 GNDC
11 CIN
12 GNDR
13 RIN
14 GNDL
15 LIN
16 BYPASSR
17 BYPASSL
18 LTRE
19 LBASS3
20 LBASS2
21 LBASS1
AVDD 42
CLOCK 41
DATA 40
LATCH 39
DGND 38
AGND 37
SWOUT 36
SROUT 35
SLOUT 34
COUT 33
ROUT 32
LOUT 31
AVSS 30
CL1 29
CL2 28
CR1 27
CR2 26
RTRE 25
RBASS3 24
RBASS2 23
RBASS1 22
IC307
R347
4.7K
R348
2.2K
C354
47P
R349
2.2K
C355
47P
C317
1
R315
1K
C356
0.1
C265
1
R232
1K
C465
1
R432
1K
C318
1
R316
1K
C272
1
C472
1
DEC_FR
R238
1.8K
C260
1
R257
27K
DEC_FL
R438
1.8K
C460
1
R457
27K
C437
3300P
C438
0.015
C439
50V0.33
C325
1
R327
6.8K
C240
1
R240
1.5K
C440
1
R440
1.5K
C241
1
R241
3.3K
C441
1
R441
3.3K
C357
0.1
C457
16V10
C257
16V10
C237
3300P
C238
0.015
C239
50V0.33
IC307
C1BB00000782
6 CHANNEL ELECTRONIC
VOLUME WITH TONE CTRL
-7.5V
VOL_LA
VOL_DA
VOL_CK
+7.5V
DISC1
DISC2
DISC3
DISC4
DISC5
JOG_B
JOG_A
VREF+
FL1
FL2
SW5V
-VP
KEY2
RMT
FLD_RST
FLD_CS
FLD_CK
FLD_DA
LED9V
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒
CN302
TO G PANEL CIRCUIT (CN900) ON SCHEMATIC DIAGRAM-24

SCHEMATIC DIAGRAM - 19

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

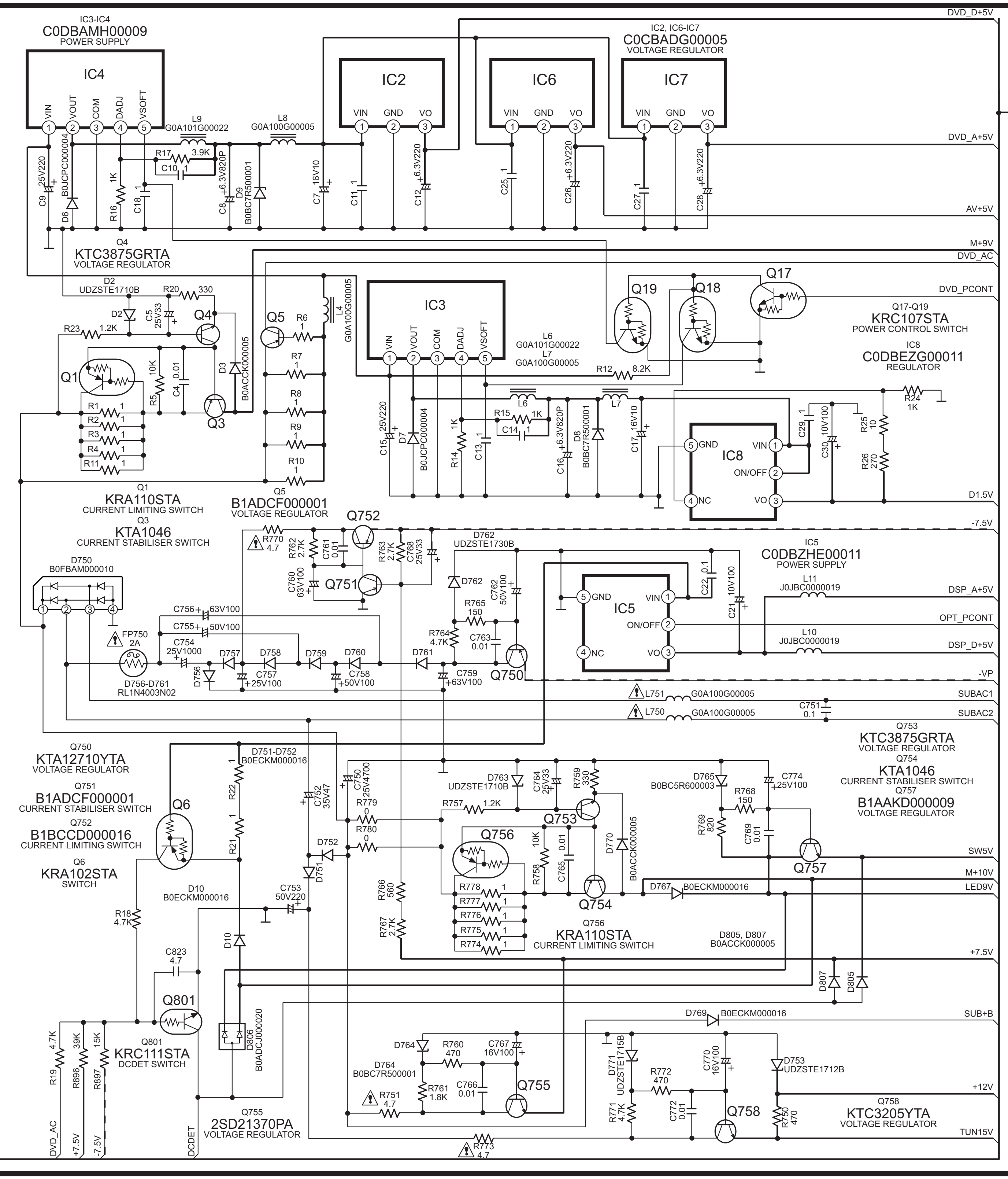
C MAIN CIRCUIT


Q302,Q304
KRA110STA
MUTING CONTROL SWITCH
Q305
KRA110STA
SWITCHING
Q320
KTD1304TA
MUTING SWITCH
Q320
SUBMUTE
MUTE_S
CE_ON/OFF
-7.5V
RSURR
LSURR
R354 1.8K
Q302
R365 1.8K
Q304
R364 10K
Q305
R258 1K
R458 1K
C452 16V10
LS
R350 3.3K
R352 56K
R355 56K
R358 56K
C252 16V10
C450 100P
R456 22K
C451 33P
R351 27K
C358 50V4.7
R357 27K
C360 50V4.7
R359 27K
C361 50V4.7
R256 22K
C250 100P
C378 1
C251 33P
-7.5V
R328 56K
C449 50V0.47
R455 3K
C249 50V0.47
R255 3K
RS
IC309
C0ABCB000040
QUAD OP AMP
RS
-VCC
LS
CTR
SUBW
+VCC
Q314-Q315,Q317
KRA110STA
MUTING CONTROL SWITCH
Q307-Q308,Q310,Q312
B1GFGCAA0001
MUTING SWITCH
R242 56K
R264 2.2K
Q307
R464 2.2K
R442 56K
R370 1K
C332 1000P
C333 100P
C379 1
C336 100P
C337 33P
+7.5V
C330 16V10
R330 6.8K
SUBW
R332 100K
C331 50V0.1
R331 6.8K
R335 56K
C338 50V0.22
R337 1K
C326 16V10
R321 3.9K
CENTER
C335 16V10
R265 2.2K
C327 1
R322 4.7K
R361 27K
Q314
R338 1.8K
MUTE_F
R243 56K
Q308
2.2K
R465
56K
R443
C328 1
56K
R369
Q310
R326 56K
33K
R722
C362 50V4.7
56K
R360
R324 8.2K
R323 8.2K
R368 3.3K
R363 27K
Q315
R339 1.8K
MUTE_C
C242 50V1
R245 6.8K
R248 39K
R249 22
R252 22
R250 22
R251 22
56K
R362
C363 50V4.7
C245 100P
C246 47P
Q312
4.7K
4.7K
R267 2.7K
+INB -INB OUTB VCC
C377 0.01
C248 1000P
R367 27K
Q317
R340 1.8K
MUTE_HP
IC308
C0AABB000055
DUAL OP AMP
R253
R453
C365 50V4.7
R366 56K
C448 1000P
R467 2.7K
VEE +INA -INA OUTA
R450 22
R452 22
R449 22
R451 22
-7.5V
C445 100P
C446 47P
R254 10
R454 10
HP_R
HP_L
C442 50V1
R445 6.8K
R448 39K
+7.5V
C376 0.01
C256 50V4.7
R262 560
FRONTR
C463 16V10
R459 68K
C732 16V10
R727 1K
C263 16V10
R259 68K
C733 0.1
R729 15K
R730 8.2K
C735 0.15
Q321
C253 0.056
R260 5.6K
R724 3.3K
R725 0
R726 0
C741 16V10
SUBWOOFER
C254 0.056
D201
R723 56K
D700
D701
R728 270K
C734 0.039
C736 5600P
R731 82K
R732 82K
33K
C255 100P
C729 100P
R737 22K
R733 3.3K
R738 4.7K
C737 0.047
-7.5V
R261
HPF2-1 HPF2-2 NF2 OUT2 VEE CIN LROUT VR HPF3-1 HPF3-2 LPF1 LPF2
C731 0.01
D201, D401
B0ACCK000005
D700-D701
B0ACCK000005
IC701
Q321
KTC3875GRTA
SWITCHING
IC701
C1BB00000389
DIGITAL SOUND CONTROLLER
HPF1-1 HPF1-2 NF1 OUT1 VCC LRNF B1 B2 LEVEL1 LEVEL2 GND INVLPF
C456 50V4.7
R462 560
FRONTL
C455 100P
R734 4.7K
LEVEL2
R735 4.7K
LEVEL1
R461 33K
D401
15K
100K
0.01
10K
16V47
C739 16V47
C773 16V10
C453 0.056
C454 0.056
R460 5.6K
R740
R739
C742
R736
C740
+7.5V

SCHEMATIC DIAGRAM - 20

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE

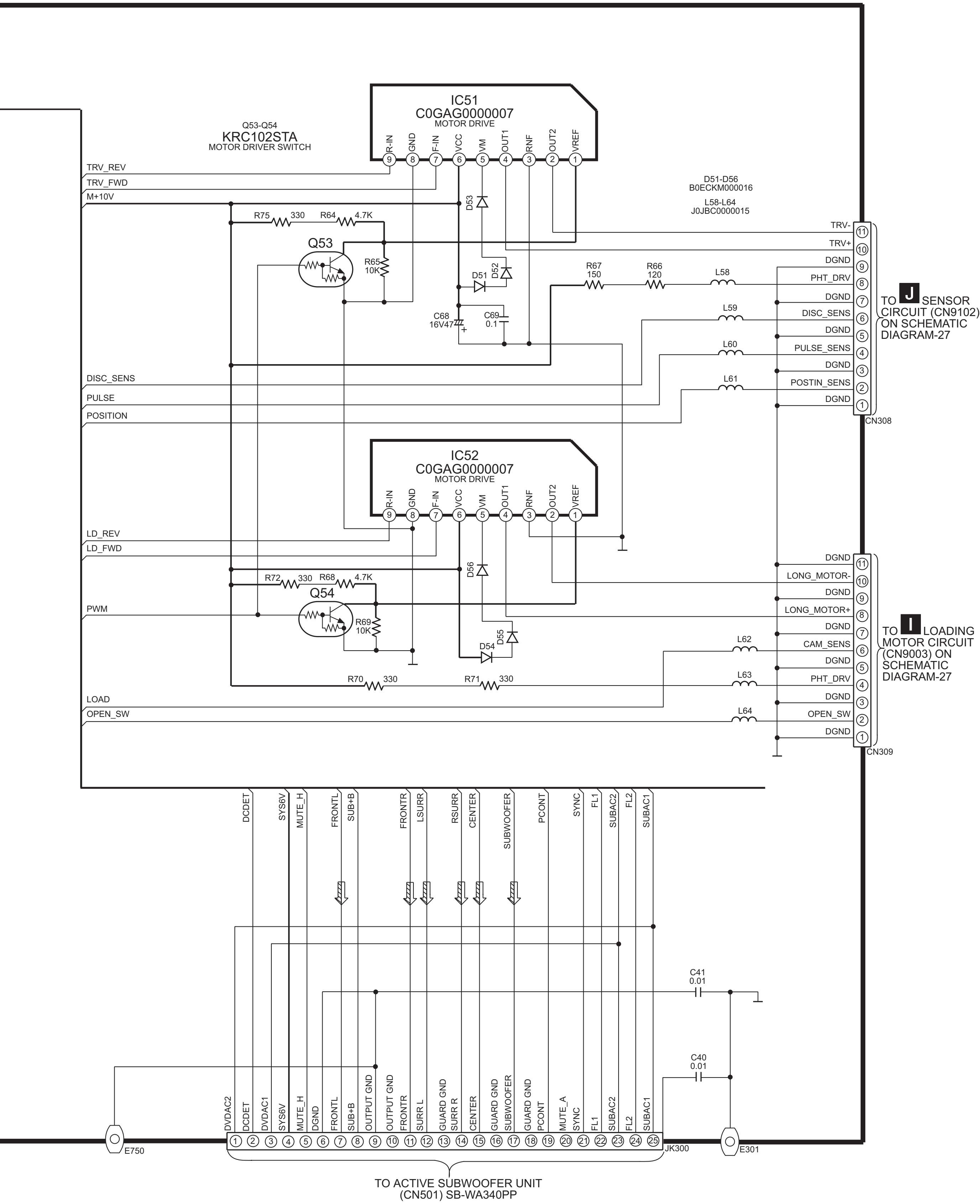
C MAIN CIRCUIT


DVD_D+5V
IC3-IC4
C0DBAMH00009
POWER SUPPLY
IC4
VIN
VOUT
COM
DADJ
VSOFT
L9
G0A101G00022
L8
G0A100G00005
R17
3.9K
C10
1
C9
25V220
B0JCPC000004
D6
1K
R16
C18
1
C8
6.3V820P
D9
B0BC7R500001
C7
16V10
C11
1
IC2, IC6-IC7
C0CBADG00005
VOLTAGE REGULATOR
IC2
IC6
IC7
VIN
GND
VO
C12
6.3V220
C25
1
C26
6.3V220
C27
1
C28
6.3V220
DVD_A+5V
AV+5V
M+9V
DVD_AC
Q4
KTC3875GRTA
VOLTAGE REGULATOR
D2
UDZSTE1710B
R20
330
D2
C5
25V33
Q4
R23
1.2K
Q1
10K
R5
C4
0.01
D3
B0ACCK000005
Q3
R1 1
R2 1
R3 1
R4 1
R11 1
Q5
R6
1
L4
G0A100G00005
R7 1
R8 1
R9 1
R10 1
IC3
VIN
VOUT
COM
DADJ
VSOFT
L6
G0A101G00022
L7
G0A100G00005
R12
8.2K
Q17
Q19
Q18
DVD_PCONT
Q17-Q19
KRC107STA
POWER CONTROL SWITCH
IC8
C0DBEZG00011
REGULATOR
R24
1K
L6
L7
R15
1K
C14
1
C15
25V220
D7
B0JCPC000004
R14
1K
C13
1
C16
6.3V820P
D8
B0BC7R500001
C17
16V10
C29
1
C30
10V100
R25
10
R26
270
IC8
GND
VIN
ON/OFF
NC
VO
D1.5V
Q1
KRA110STA
CURRENT LIMITING SWITCH
Q3
KTA1046
CURRENT STABILISER SWITCH
Q5
B1ADCF000001
VOLTAGE REGULATOR
Q752
R770
4.7
R762
2.7K
C761
0.01
R763
2.7K
C768
25V33
-7.5V
D762
UDZSTE1730B
C760
63V100
Q751
D762
R765
150
C762
50V100
IC5
C0DBZHE00011
POWER SUPPLY
C22
0.1
C21
10V100
L11
J0JBC0000019
DSP_A+5V
IC5
GND
VIN
ON/OFF
NC
VO
OPT_PCONT
L10
J0JBC0000019
DSP_D+5V
D750
B0FBAM000010
C756
63V100
C755
50V100
C754
25V1000
FP750
2A
R764
4.7K
C763
0.01
D757
D758
D759
D760
D761
D756
C757
25V100
C758
50V100
C759
63V100
Q750
-VP
D756-D761
RL1N4003N02
L751
G0A100G00005
SUBAC1
L750
G0A100G00005
C751
0.1
SUBAC2
Q750
KTA12710YTA
VOLTAGE REGULATOR
Q751
B1ADCF000001
CURRENT STABILISER SWITCH
Q752
B1BCCD000016
CURRENT LIMITING SWITCH
Q6
KRA102STA
SWITCH
D751-D752
B0ECKM000016
R22
1
R21
1
Q6
C752
35V47
C750
25V4700
R779
0
R780
0
D752
D751
D10
B0ECKM000016
C753
50V220
R18
4.7K
D763
UDZSTE1710B
C764
25V33
R759
330
R757
1.2K
Q753
Q756
10K
0.01
R758
C765
D770
B0ACCK000005
Q754
R766
560
R767
2.7K
R778 1
R777 1
R776 1
R775 1
R774 1
Q756
KRA110STA
CURRENT LIMITING SWITCH
Q753
KTC3875GRTA
VOLTAGE REGULATOR
Q754
KTA1046
CURRENT STABILISER SWITCH
Q757
B1AAKD000009
VOLTAGE REGULATOR
D765
B0BC5R600003
C774
25V100
R768
150
R769
820
C769
0.01
Q757
SW5V
M+10V
D767
B0ECKM000016
LED9V
D805, D807
B0ACCK000005
+7.5V
D807
D805
C823
4.7
Q801
Q801
KRC111STA
DCDET SWITCH
R19
4.7K
R896
39K
R897
15K
D806
B0ADCJ000020
D769
B0ECKM000016
SUB+B
D764
R760
470
C767
16V100
D764
B0BC7R500001
R761
1.8K
C766
0.01
Q755
R751
4.7
D771
UDZSTE1715B
R772
470
C770
16V100
D753
UDZSTE1712B
+12V
R771
4.7K
C772
0.01
Q758
R750
470
Q758
KTC3205YTA
VOLTAGE REGULATOR
Q755
2SD21370PA
VOLTAGE REGULATOR
R773
4.7
TUN15V
DVD_AC
+7.5V
-7.5V
DCDET

SCHEMATIC DIAGRAM - 21

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT

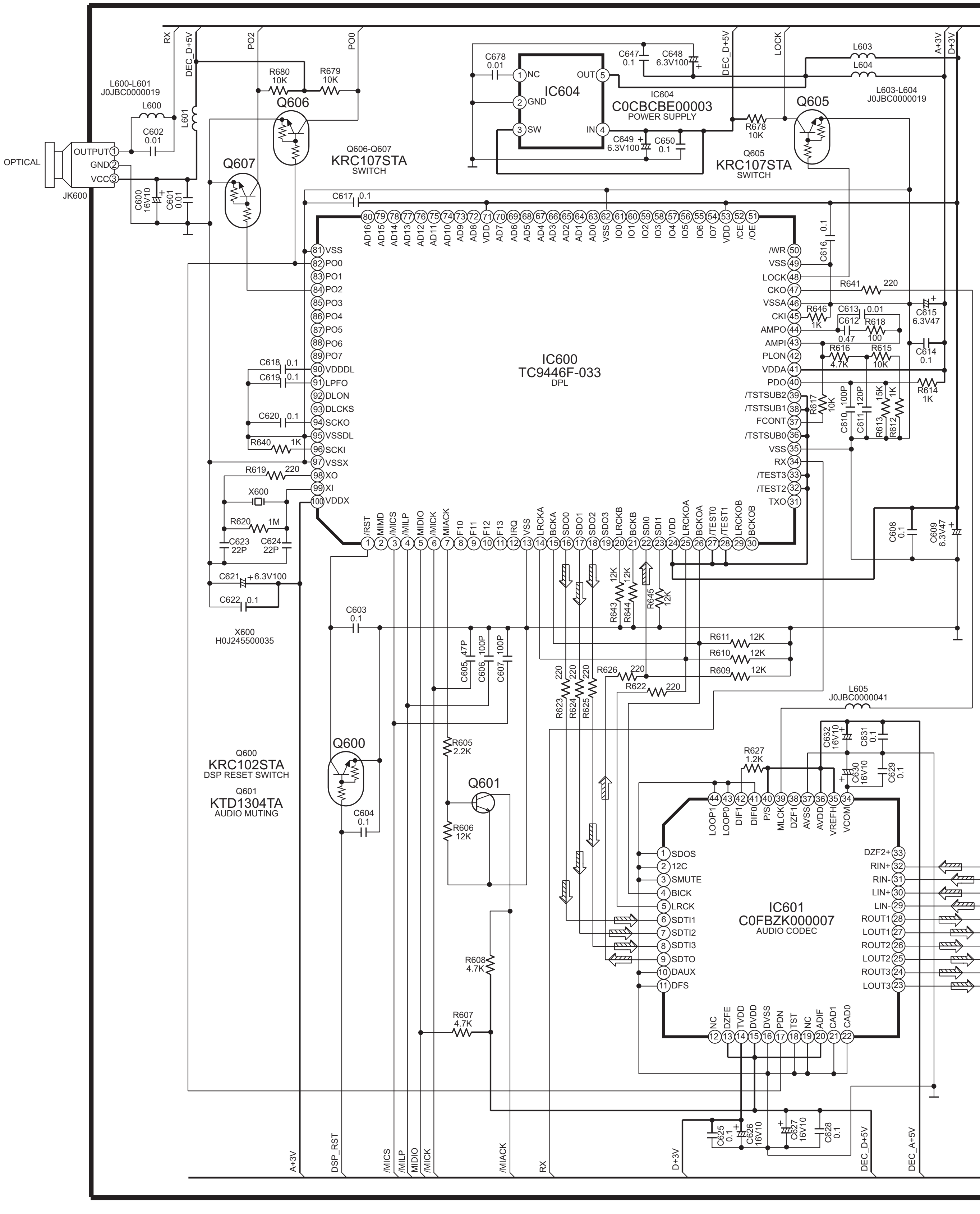


IC51
C0GAG0000007
MOTOR DRIVE
R-IN
GND
F-IN
VCC
VM
OUT1
RNF
OUT2
VREF
Q53-Q54
KRC102STA
MOTOR DRIVER SWITCH
TRV_REV
TRV_FWD
M+10V
R75 330
R64 4.7K
Q53
R65 10K
D53
D52
D51
C68 16V47
C69 0.1
R67 150
R66 120
L58
L59
L60
L61
D51-D56
B0ECKM000016
L58-L64
J0JBC0000015
TRV-
TRV+
DGND
PHT_DRV
DISC_SENS
PULSE_SENS
POSTIN_SENS
CN308
TO J SENSOR CIRCUIT (CN9102) ON SCHEMATIC DIAGRAM-27
DISC_SENS
PULSE
POSITION
IC52
C0GAG0000007
MOTOR DRIVE
LD_REV
LD_FWD
R72 330
R68 4.7K
Q54
R69 10K
PWM
D56
D55
D54
R70 330
R71 330
LOAD
OPEN_SW
L62
L63
L64
DGND
LONG_MOTOR-
LONG_MOTOR+
CAM_SENS
PHT_DRV
OPEN_SW
CN309
TO I LOADING MOTOR CIRCUIT (CN9003) ON SCHEMATIC DIAGRAM-27
DCDET
SYS6V
MUTE_H
FRONTL
SUB+B
FRONTR
LSURR
RSURR
CENTER
SUBWOOFER
PCONT
SYNC
FL1
SUBAC2
FL2
SUBAC1
C41 0.01
C40 0.01
DVDAC2
DCDET
DVDAC1
SYS6V
MUTE_H
DGND
FRONTL
SUB+B
OUTPUT GND
OUTPUT GND
FRONTR
SURR L
GUARD GND
SURR R
CENTER
GUARD GND
SUBWOOFER
GUARD GND
PCONT
MUTE_A
SYNC
FL1
SUBAC2
FL2
SUBAC1
E750
E301
JK300
TO ACTIVE SUBWOOFER UNIT
(CN501) SB-WA340PP

CHEMATIC DIAGRAM - 22

—— : +B SIGNAL LINE — — : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

F DSP CIRCUIT

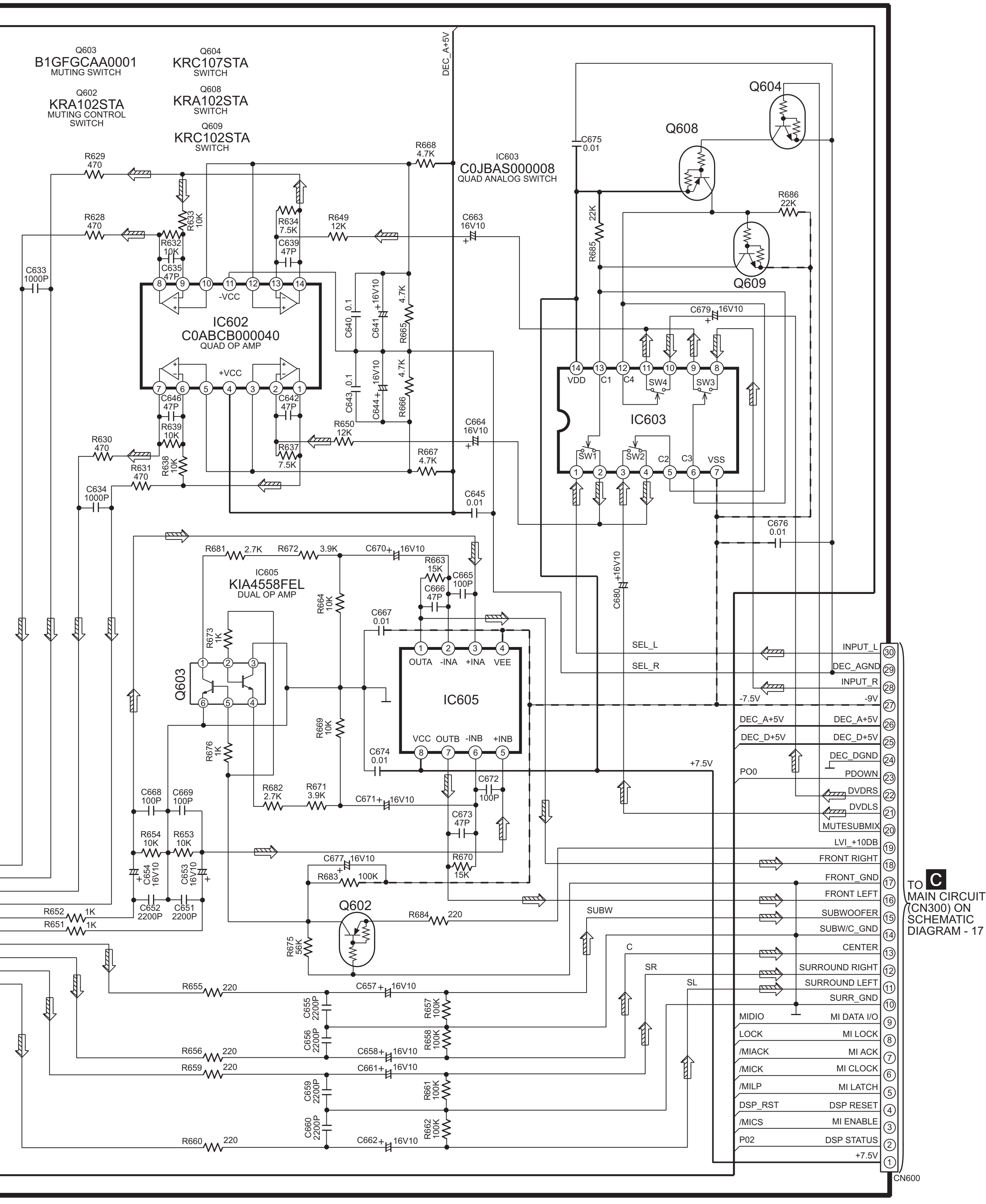


OPTICAL
JK600
OUTPUT ①
GND ②
VCC ③
L600-L601
J0JBC0000019
L600
L601
C602 0.01
C600 16V10
C601 0.01
RX
DEC_D+5V
PO2
PO0
R680 10K
R679 10K
Q606
Q607
Q606-Q607
KRC107STA
SWITCH
C678 0.01
IC604
① NC
② GND
③ SW
OUT ⑤
IN ④
C647 0.1
C648 6.3V100
C649 6.3V100
C650 0.1
IC604
C0CBCBE00003
POWER SUPPLY
DEC_D+5V
LOCK
R678 10K
Q605
Q605
KRC107STA
SWITCH
L603
L604
L603-L604
J0JBC0000019
A+3V
D+3V
C617 0.1
C616 0.1
IC600
TC9446F-033
DPL
AD16 AD15 AD14 AD13 AD12 AD11 AD10 AD9 AD8 VDD AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0 VSS IO0 IO1 IO2 IO3 IO4 IO5 IO6 IO7 VDD /CE /OE
(80)–(51)
(81) VSS
(82) PO0
(83) PO1
(84) PO2
(85) PO3
(86) PO4
(87) PO5
(88) PO6
(89) PO7
(90) VDDDL
(91) LPFO
(92) DLON
(93) DLCKS
(94) SCKO
(95) VSSDL
(96) SCKI
(97) VSSX
(98) XO
(99) XI
(100) VDDX
/WR (50)
VSS (49)
LOCK (48)
CKO (47)
VSSA (46)
CKI (45)
AMPO (44)
AMPI (43)
PLON (42)
VDDA (41)
PDO (40)
/TSTSUB2 (39)
/TSTSUB1 (38)
FCONT (37)
/TSTSUB0 (36)
VSS (35)
RX (34)
/TEST3 (33)
/TEST2 (32)
TXO (31)
/RST MIMD /MICS /MILP MIDIO /MICK MIACK F10 F11 F12 F13 IRQ VSS LRCKA BCKA SDO0 SDO1 SDO2 SDO3 LRCKB BCKB SDI0 SDI1 VDD LRCKOA BCKOA /TEST0 /TEST1 LRCKOB BCKOB
①–(30)
C618 0.1
C619 0.1
C620 0.1
R640 1K
R619 220
X600
R620 1M
C623 22P
C624 22P
C621 6.3V100
C622 0.1
X600
H0J245500035
R641 220
R646 1K
C613 0.01
C612 0.47
R618 100
C615 6.3V47
C614 0.1
R616 4.7K
R615 10K
R614 1K
R617 10K
C610 100P
C611 120P
R613 15K
R612 1K
C608 0.1
C609 6.3V47
R643 12K
R644 12K
R645 12K
C603 0.1
C605 47P
C606 100P
C607 100P
R611 12K
R610 12K
R609 12K
R626 220
R622 220
R623 220
R624 220
R625 220
L605
J0JBC0000041
Q600
KRC102STA
DSP RESET SWITCH
Q601
KTD1304TA
AUDIO MUTING
Q600
C604 0.1
R605 2.2K
Q601
R606 12K
R608 4.7K
R607 4.7K
C632 16V10
C631 0.1
R627 1.2K
C630 16V10
C629 0.1
LOOP1 LOOP0 DIF1 DIF0 P/S MLCK DZF1 AVSS AVDD VREFH VCOM
(44)–(34)
① SDOS
② I2C
③ SMUTE
④ BICK
⑤ LRCK
⑥ SDTI1
⑦ SDTI2
⑧ SDTI3
⑨ SDTO
⑩ DAUX
⑪ DFS
IC601
C0FBZK000007
AUDIO CODEC
DZF2+ (33)
RIN+ (32)
RIN- (31)
LIN+ (30)
LIN- (29)
ROUT1 (28)
LOUT1 (27)
ROUT2 (26)
LOUT2 (25)
ROUT3 (24)
LOUT3 (23)
NC DZFE TVDD DVDD DVSS PDN TST NC ADIF CAD1 CAD0
⑫–(22)
C625 0.1
C626 16V10
C627 16V10
C628 0.1
A+3V
DSP_RST
/MICS
/MILP
MIDIO
/MICK
/MIACK
RX
D+3V
DEC_D+5V
DEC_A+5V

SCHEMATIC DIAGRAM - 23

— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

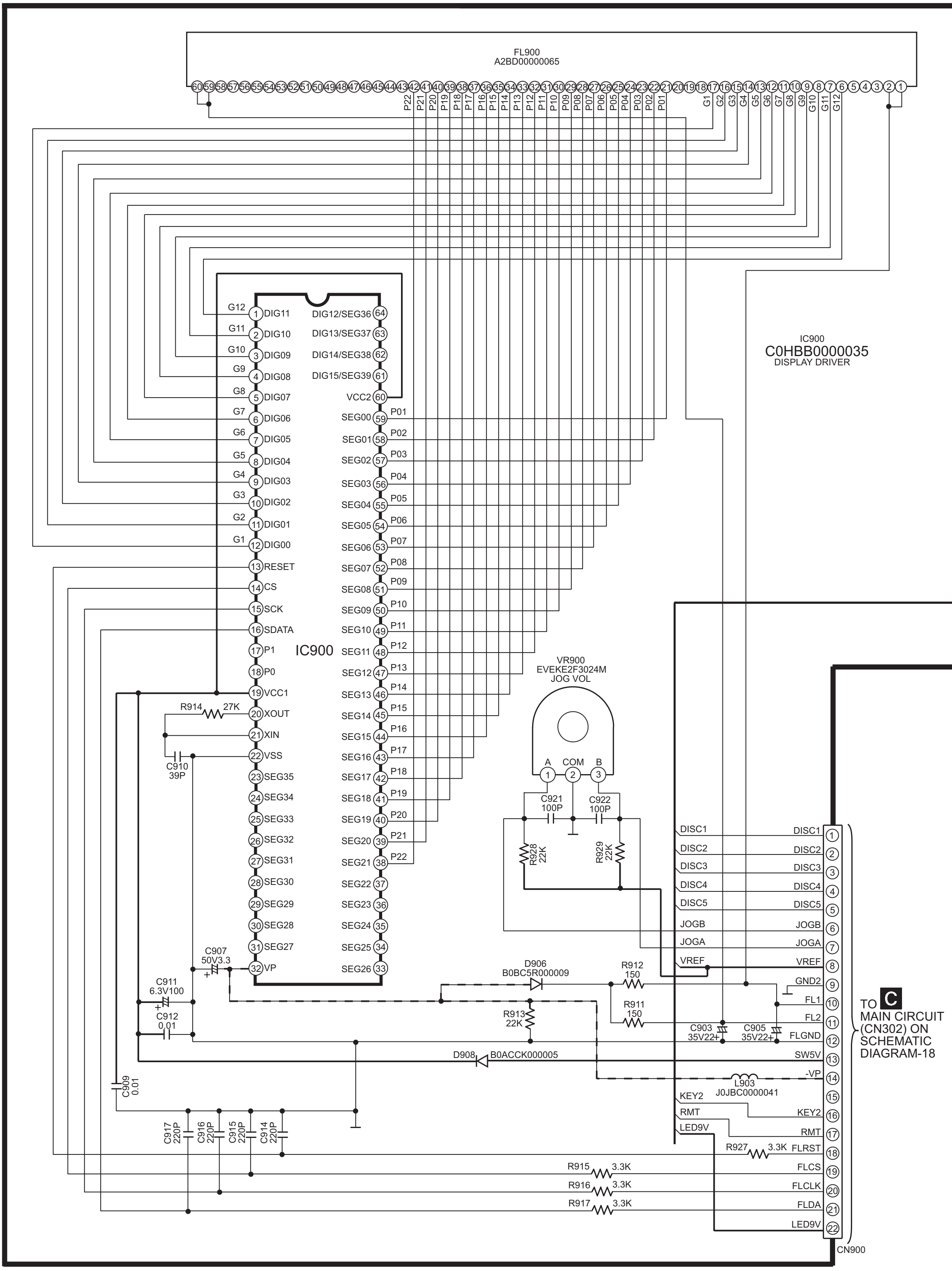
F DSP CIRCUIT


Q603
B1GFGCAA0001
MUTING SWITCH
Q602
KRA102STA
MUTING CONTROL SWITCH
Q604
KRC107STA
SWITCH
Q608
KRA102STA
SWITCH
Q609
KRC102STA
SWITCH
DEC_A+5V
IC603
C0JBAS000008
QUAD ANALOG SWITCH
IC602
C0ABCB000040
QUAD OP AMP
-VCC
+VCC
IC605
KIA4558FEL
DUAL OP AMP
OUTA
-INA
+INA
VEE
VCC
OUTB
-INB
+INB
VDD
C1
C4
SW4
SW3
SW1
SW2
C2
C3
VSS
Q604
Q608
Q609
Q602
Q603
R629 470
R628 470
R633 10K
R632 10K
R634 7.5K
R649 12K
R668 4.7K
C633 1000P
C635 47P
C639 47P
C663 16V10
C675 0.01
R685 22K
R686 22K
C640 0.1
C641 16V10
R665 4.7K
C643 0.1
C644 16V10
R666 4.7K
C679 16V10
C646 47P
C642 47P
R639 10K
R630 470
R638 10K
R631 470
R637 7.5K
R650 12K
C664 16V10
R667 4.7K
C634 1000P
C645 0.01
C676 0.01
R681 2.7K
R672 3.9K
C670 16V10
R663 15K
C665 100P
C666 47P
R664 10K
C667 0.01
R673 1K
C680 16V10
R669 10K
R676 1K
C674 0.01
C668 100P
C669 100P
R682 2.7K
R671 3.9K
C671 16V10
C672 100P
C673 47P
R654 10K
R653 10K
C677 16V10
R670 15K
R683 100K
C654 16V10
C653 16V10
C652 2200P
C651 2200P
R652 1K
R651 1K
R684 220
R675 56K
R655 220
C657 16V10
C655 2200P
R657 100K
C656 2200P
R658 100K
R656 220
C658 16V10
R659 220
C661 16V10
C659 2200P
R661 100K
C660 2200P
R662 100K
R660 220
C662 16V10
SEL_L
SEL_R
-7.5V
+7.5V
DEC_A+5V
DEC_D+5V
PO0
SUBW
C
SR
SL
MIDIO
LOCK
/MIACK
/MICK
/MILP
/DSP_RST
/MICS
P02
30 INPUT_L
29 DEC_AGND
28 INPUT_R
27 -9V
26 DEC_A+5V
25 DEC_D+5V
24 DEC_DGND
23 PDOWN
22 DVDRS
21 DVDLS
20 MUTESUBMIX
19 LVI_+10DB
18 FRONT RIGHT
17 FRONT_GND
16 FRONT LEFT
15 SUBWOOFER
14 SUBW/C_GND
13 CENTER
12 SURROUND RIGHT
11 SURROUND LEFT
10 SURR_GND
9 MI DATA I/O
8 MI LOCK
7 MI ACK
6 MI CLOCK
5 MI LATCH
4 DSP RESET
3 MI ENABLE
2 DSP STATUS
1 +7.5V
CN600
TO C MAIN CIRCUIT (CN300) ON SCHEMATIC DIAGRAM - 17

SCHEMATIC DIAGRAM - 24

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

G PANEL CIRCUIT

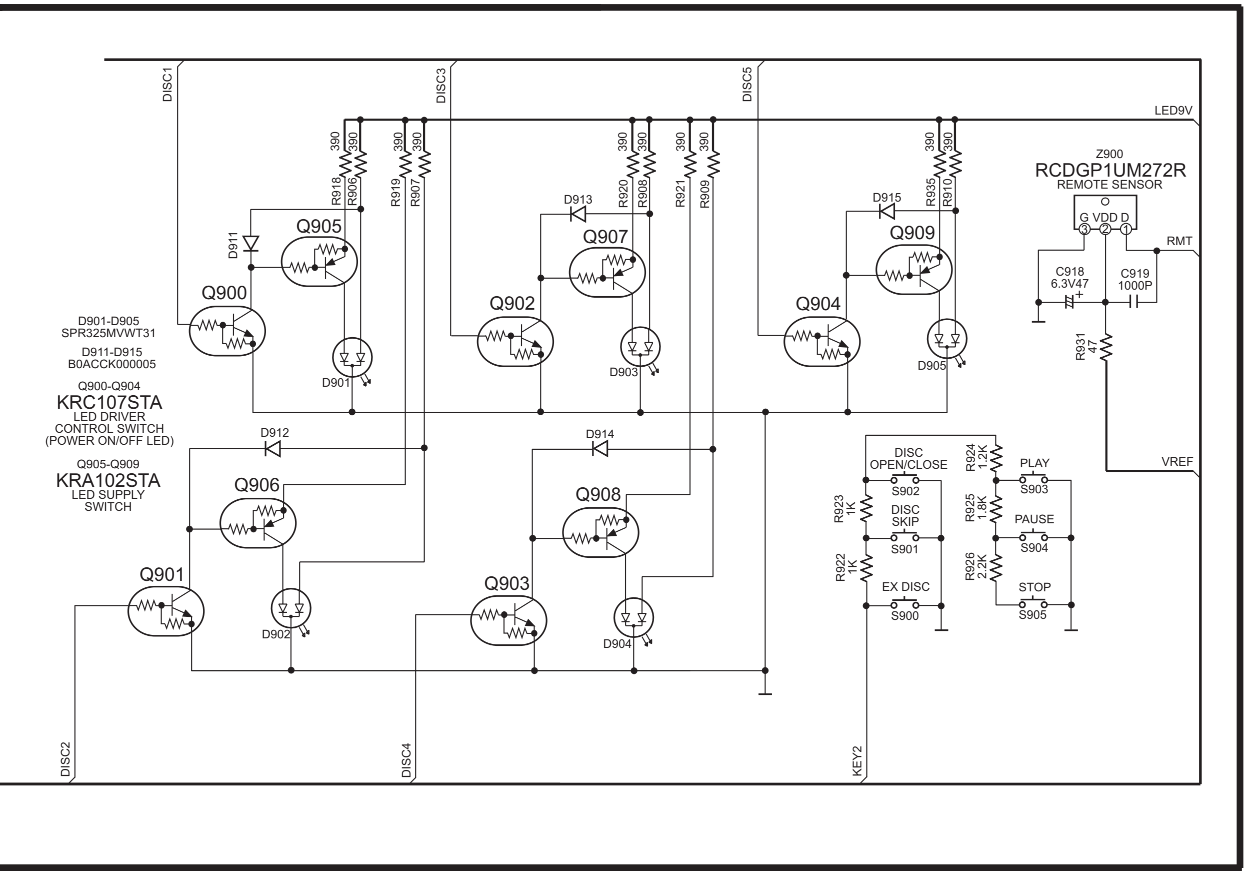


FL900
A2BD00000065
60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
P22 P21 P20 P19 P18 P17 P16 P15 P14 P13 P12 P11 P10 P09 P08 P07 P06 P05 P04 P03 P02 P01
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12
IC900
C0HBB0000035
DISPLAY DRIVER
G12 1 DIG11
G11 2 DIG10
G10 3 DIG09
G9 4 DIG08
G8 5 DIG07
G7 6 DIG06
G6 7 DIG05
G5 8 DIG04
G4 9 DIG03
G3 10 DIG02
G2 11 DIG01
G1 12 DIG00
13 RESET
14 CS
15 SCK
16 SDATA
17 P1
18 P0
19 VCC1
20 XOUT
21 XIN
22 VSS
23 SEG35
24 SEG34
25 SEG33
26 SEG32
27 SEG31
28 SEG30
29 SEG29
30 SEG28
31 SEG27
32 VP
IC900
DIG12/SEG36 64
DIG13/SEG37 63
DIG14/SEG38 62
DIG15/SEG39 61
VCC2 60
SEG00 59 P01
SEG01 58 P02
SEG02 57 P03
SEG03 56 P04
SEG04 55 P05
SEG05 54 P06
SEG06 53 P07
SEG07 52 P08
SEG08 51 P09
SEG09 50 P10
SEG10 49 P11
SEG11 48 P12
SEG12 47 P13
SEG13 46 P14
SEG14 45 P15
SEG15 44 P16
SEG16 43 P17
SEG17 42 P18
SEG18 41 P19
SEG19 40 P20
SEG20 39 P21
SEG21 38 P22
SEG22 37
SEG23 36
SEG24 35
SEG25 34
SEG26 33
R914 27K
C910 39P
C907 50V3.3
C911 6.3V100
C912 0.01
C909 0.01
C917 220P
C916 220P
C915 220P
C914 220P
VR900
EVEKE2F3024M
JOG VOL
A COM B
1 2 3
C921 100P
C922 100P
R928 22K
R929 22K
D906
B0BC5R000009
R912 150
R911 150
R913 22K
D908 B0ACCK000005
C903 35V22
C905 35V22
L903
J0JBC0000041
R927 3.3K
R915 3.3K
R916 3.3K
R917 3.3K
DISC1
DISC2
DISC3
DISC4
DISC5
JOGB
JOGA
VREF
KEY2
RMT
LED9V
DISC1 1
DISC2 2
DISC3 3
DISC4 4
DISC5 5
JOGB 6
JOGA 7
VREF 8
GND2 9
FL1 10
FL2 11
FLGND 12
SW5V 13
-VP 14
15
KEY2 16
RMT 17
FLRST 18
FLCS 19
FLCLK 20
FLDA 21
LED9V 22
CN900
TO C
MAIN CIRCUIT
(CN302) ON
SCHEMATIC
DIAGRAM-18

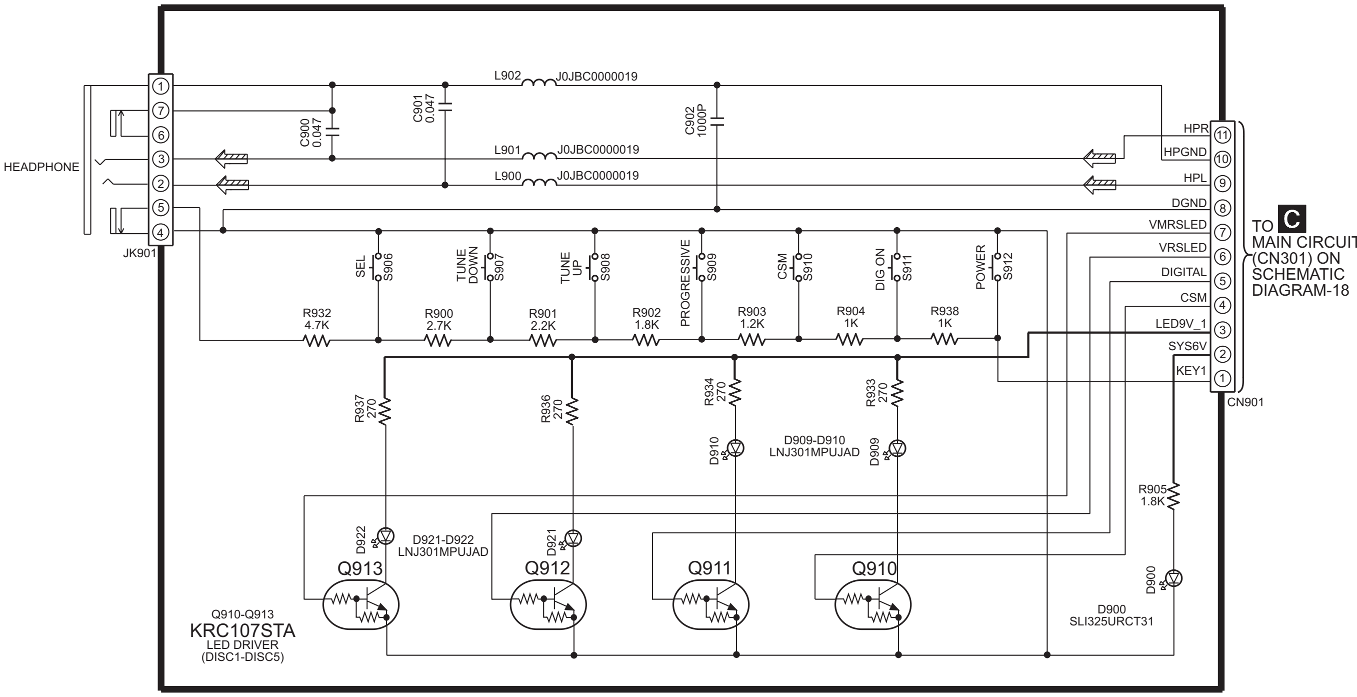
SCHEMATIC DIAGRAM - 25

: +B SIGNAL LINE　: MAIN SIGNAL LINE

G PANEL CIRCUIT


DISC1
DISC3
DISC5
LED9V
R918 390
R906 390
R919 390
R907 390
R920 390
R908 390
R921 390
R909 390
R935 390
R910 390
D911
D913
D915
Q905
Q907
Q909
Q900
Q902
Q904
D901
D903
D905
Z900
RCDGP1UM272R
REMOTE SENSOR
G VDD D
③ ② ①
RMT
C918 6.3V47
C919 1000P
R931 47
VREF
D901-D905
SPR325MVWT31
D911-D915
B0ACCK000005
Q900-Q904
KRC107STA
LED DRIVER
CONTROL SWITCH
(POWER ON/OFF LED)
Q905-Q909
KRA102STA
LED SUPPLY
SWITCH
D912
D914
Q906
Q908
Q901
Q903
D902
D904
DISC OPEN/CLOSE
S902
DISC SKIP
S901
EX DISC
S900
R923 1K
R922 1K
R924 1.2K
R925 1.8K
R926 2.2K
PLAY
S903
PAUSE
S904
STOP
S905
DISC2
DISC4
KEY2

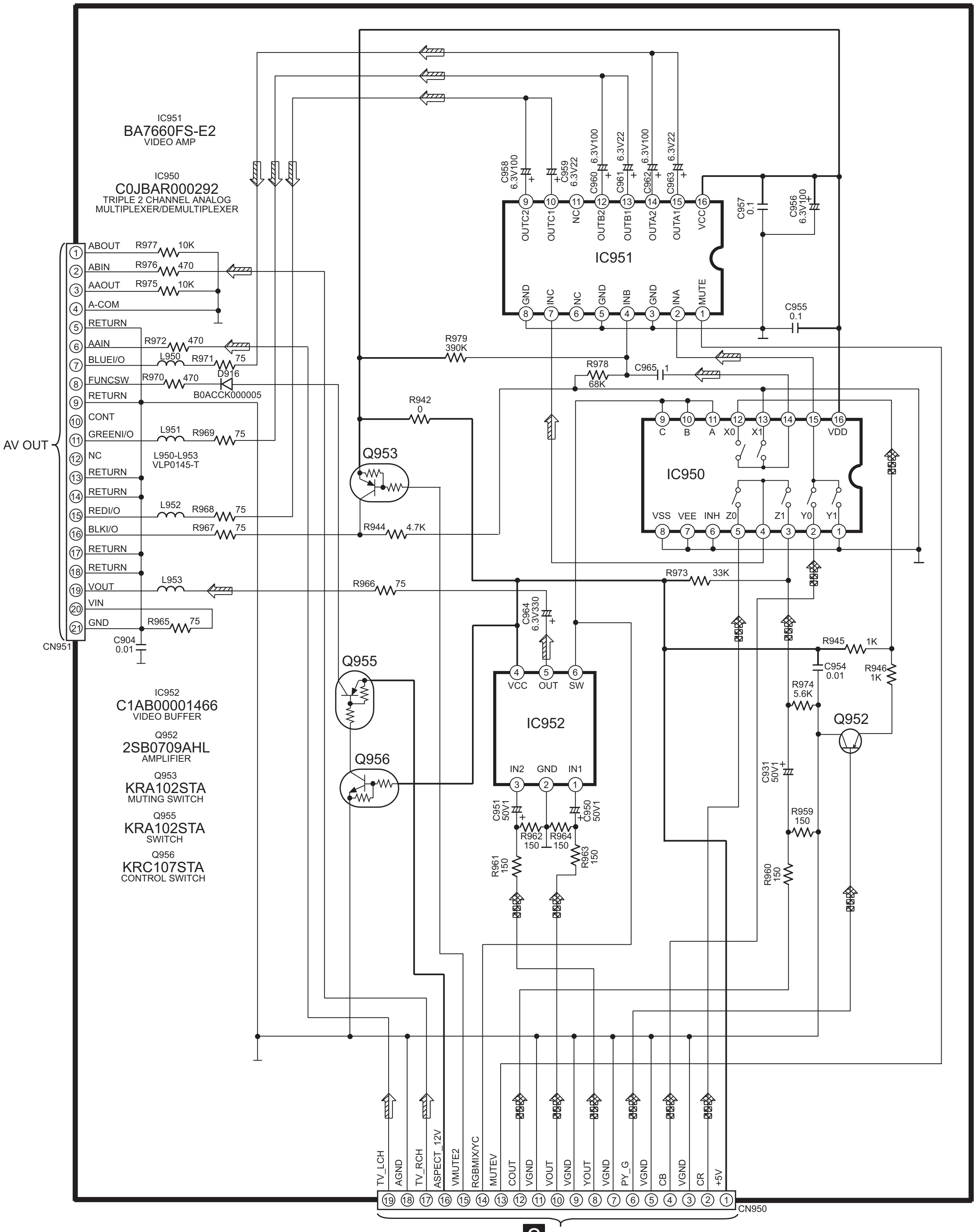
L HEADPHONE CIRCUIT


HEADPHONE
JK901
① ⑦ ⑥ ③ ② ⑤ ④
C900 0.047
C901 0.047
C902 1000P
L902 J0JBC0000019
L901 J0JBC0000019
L900 J0JBC0000019
HPR ⑪
HPGND ⑩
HPL ⑨
DGND ⑧
VMRSLED ⑦
VRSLED ⑥
DIGITAL ⑤
CSM ④
LED9V_1 ③
SYS6V ②
KEY1 ①
CN901
TO C MAIN CIRCUI
(CN301) ON
SCHEMATIC
DIAGRAM-18
SEL S906
TUNE DOWN S907
TUNE UP S908
PROGRESSIVE S909
CSM S910
DIG ON S911
POWER S912
R932 4.7K
R900 2.7K
R901 2.2K
R902 1.8K
R903 1.2K
R904 1K
R938 1K
R937 270
R936 270
R934 270
R933 270
D910
D909
D909-D910
LNJ301MPUJAD
D922
D921
D921-D922
LNJ301MPUJAD
Q913
Q912
Q911
Q910
R905 1.8K
D900
D900
SLI325URCT31
Q910-Q913
KRC107STA
LED DRIVER
(DISC1-DISC5)

SCHEMATIC DIAGRAM - 26

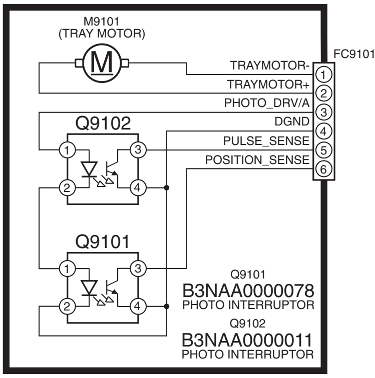
—— : +B SIGNAL LINE   ▨▨▷ : DVD(VIDEO) SIGNAL LINE   ▭▷ : MAIN SIGNAL LINE

M SCART CIRCUIT

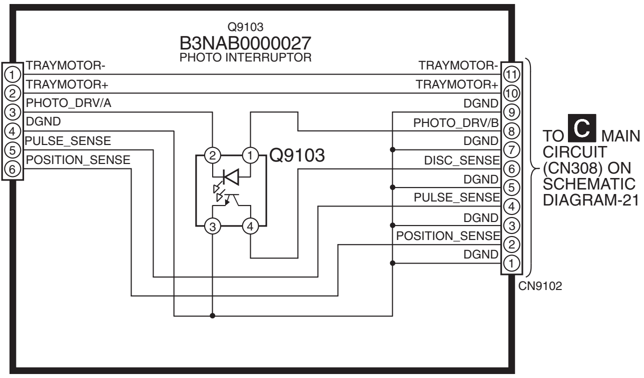

IC951
BA7660FS-E2
VIDEO AMP
IC950
C0JBAR000292
TRIPLE 2 CHANNEL ANALOG
MULTIPLEXER/DEMULTIPLEXER
IC952
C1AB00001466
VIDEO BUFFER
Q952
2SB0709AHL
AMPLIFIER
Q953
KRA102STA
MUTING SWITCH
Q955
KRA102STA
SWITCH
Q956
KRC107STA
CONTROL SWITCH
AV OUT
CN951
1 ABOUT
2 ABIN
3 AAOUT
4 A-COM
5 RETURN
6 AAIN
7 BLUEI/O
8 FUNCSW
9 RETURN
10 CONT
11 GREENI/O
12 NC
13 RETURN
14 RETURN
15 REDI/O
16 BLKI/O
17 RETURN
18 RETURN
19 VOUT
20 VIN
21 GND
R977 10K
R976 470
R975 10K
R972 470
L950
R971 75
R970 470
D916
B0ACCK000005
L951
R969 75
L950-L953
VLP0145-T
L952
R968 75
R967 75
L953
R966 75
R965 75
C904 0.01
R979 390K
R978 68K
C965 1
R942 0
R944 4.7K
R973 33K
R945 1K
C954 0.01
R946 1K
R974 5.6K
C931 50V1
R959 150
R960 150
C964 6.3V330
C951 50V1
C950 50V1
R962 150
R964 150
R961 150
R963 150
C958 6.3V100
C959 6.3V22
C960 6.3V100
C961 6.3V22
C962 6.3V100
C963 6.3V22
C957 0.1
C956 6.3V100
C955 0.1
IC951
9 OUTC2
10 OUTC1
11 NC
12 OUTB2
13 OUTB1
14 OUTA2
15 OUTA1
16 VCC
8 GND
7 INC
6 NC
5 GND
4 INB
3 GND
2 INA
1 MUTE
IC950
9 C
10 B
11 A
12 X0
13 X1
14
15
16 VDD
8 VSS
7 VEE
6 INH
5 Z0
4
3 Z1
2 Y0
1 Y1
IC952
4 VCC
5 OUT
6 SW
3 IN2
2 GND
1 IN1
Q953
Q955
Q956
Q952
CN950
19 TV_LCH
18 AGND
17 TV_RCH
16 ASPECT_12V
15 VMUTE2
14 RGBMIX/YC
13 MUTEV
12 COUT
11 VGND
10 VOUT
9 VGND
8 YOUT
7 VGND
6 PY_G
5 VGND
4 CB
3 VGND
2 CR
1 +5V

TO C MAIN CIRCUIT
(CN307) ON SCHEMATIC
DIAGRAM-15

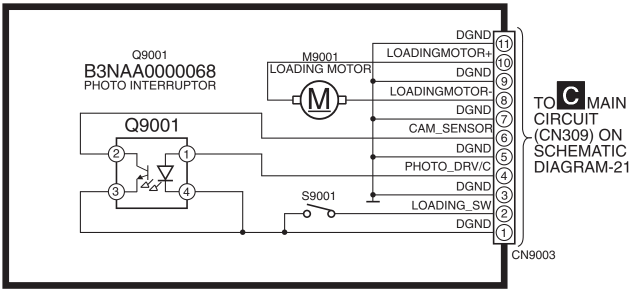
H TRAY MOTOR CIRCUIT

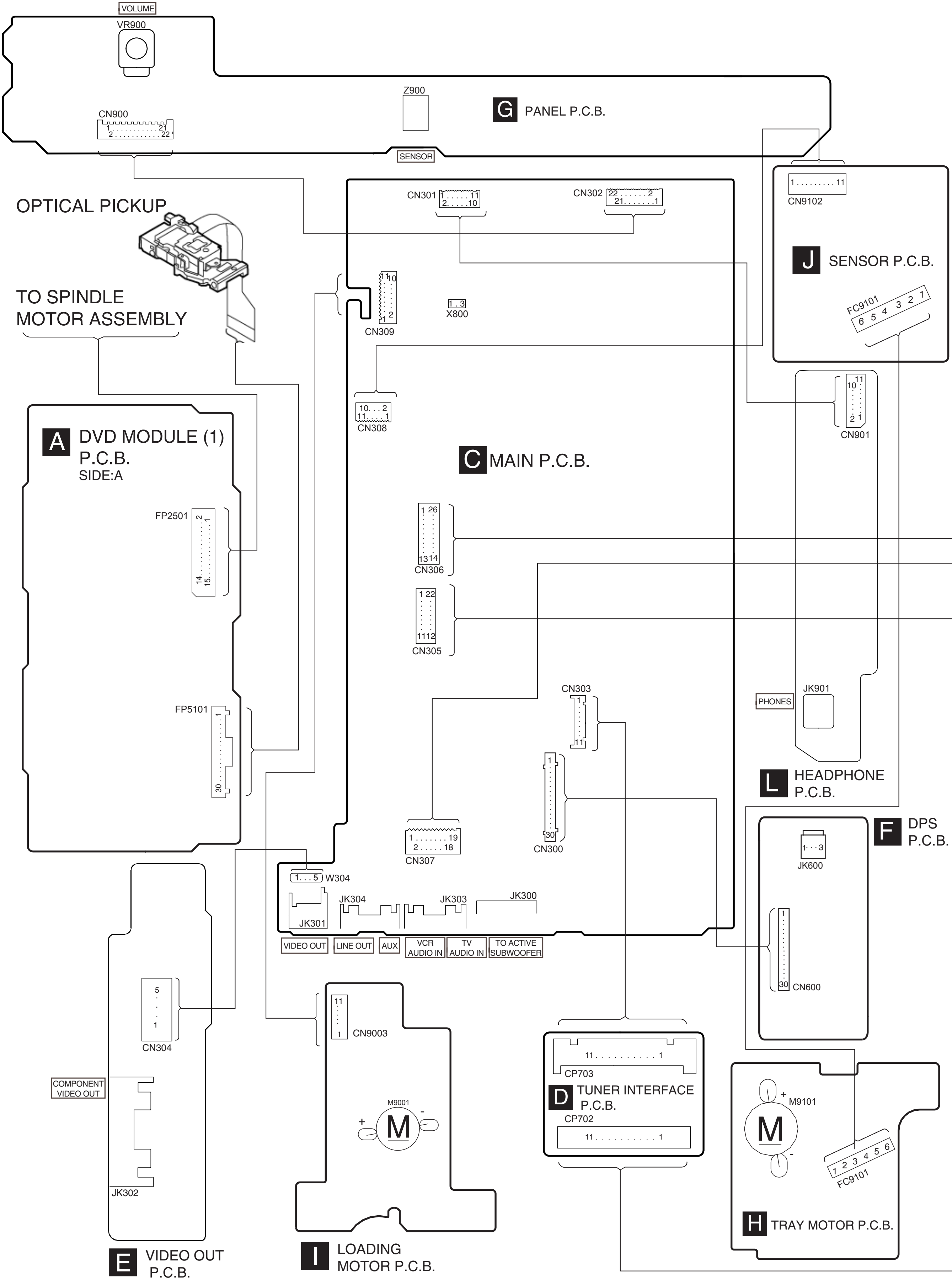

M9101
(TRAY MOTOR)
M
FC9101
TRAYMOTOR-
TRAYMOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
1
2
3
4
5
6
Q9102
Q9101
Q9101
B3NAA0000078
PHOTO INTERRUPTOR
Q9102
B3NAA0000011
PHOTO INTERRUPTOR

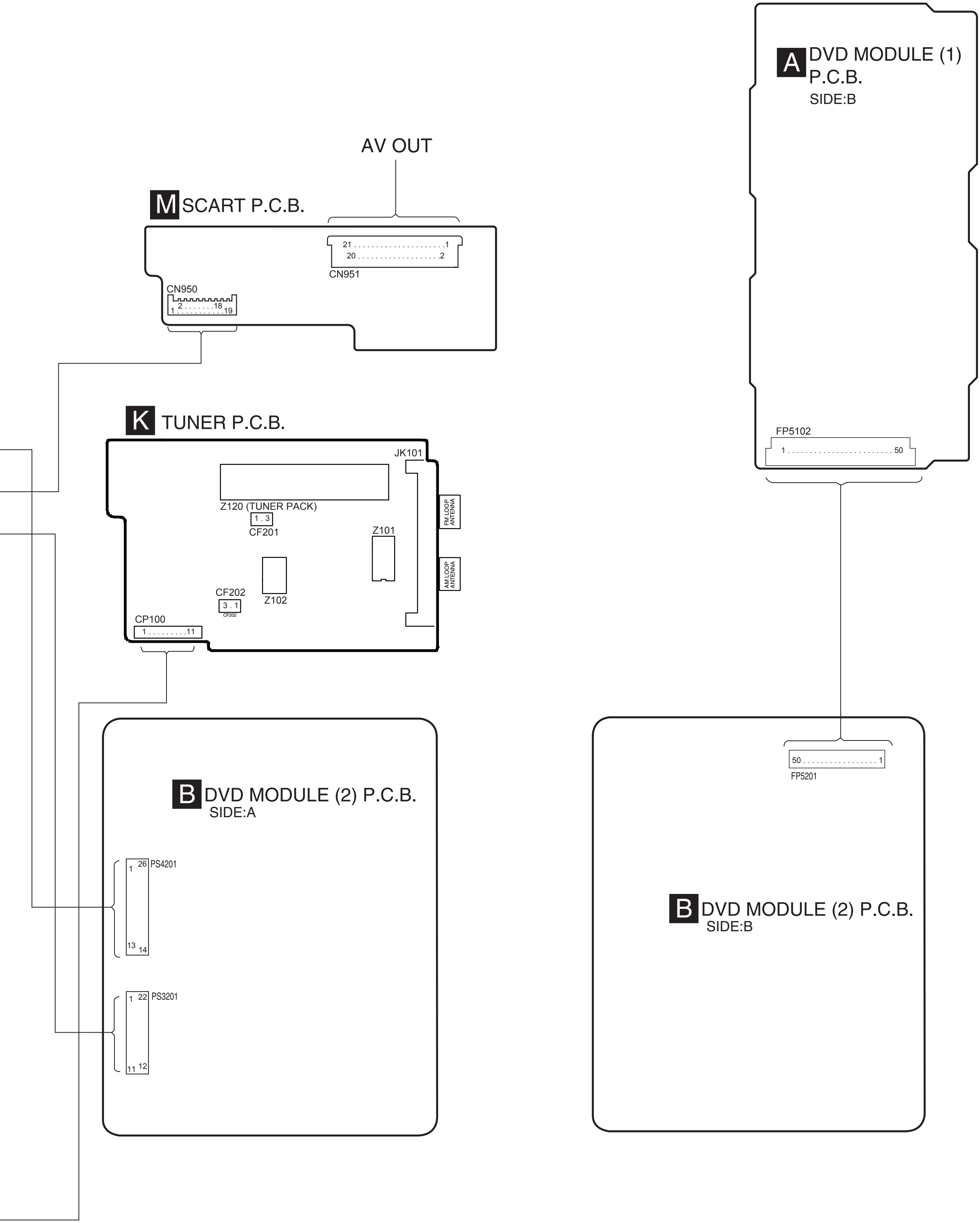
J SENSOR CIRCUIT

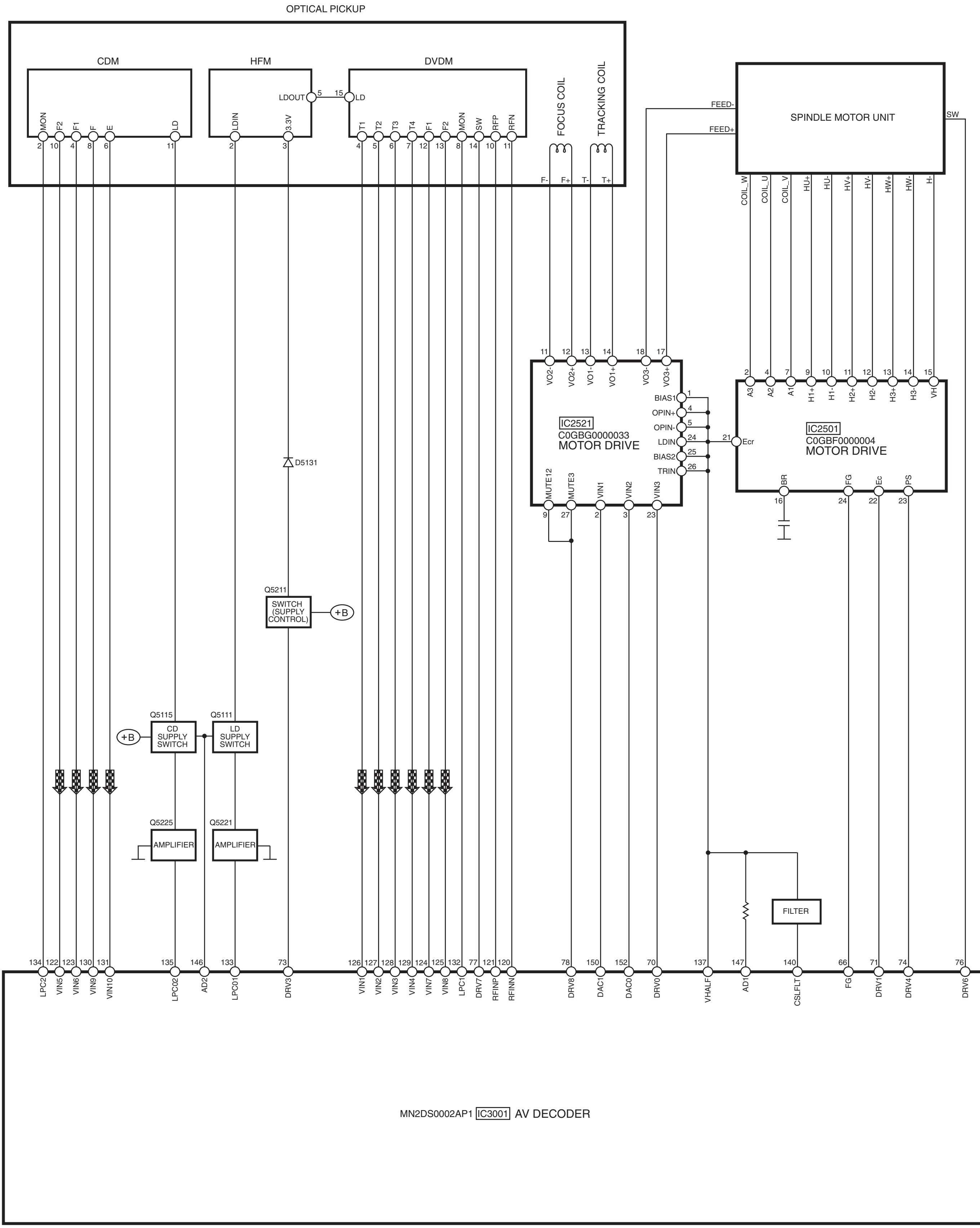

Q9103
B3NAB0000027
PHOTO INTERRUPTOR
TRAYMOTOR-
TRAYMOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9103
TRAYMOTOR-
TRAYMOTOR+
DGND
PHOTO_DRV/B
DGND
DISC_SENSE
DGND
PULSE_SENSE
DGND
POSITION_SENSE
DGND
CN9102
TO C MAIN CIRCUIT (CN308) ON SCHEMATIC DIAGRAM-21

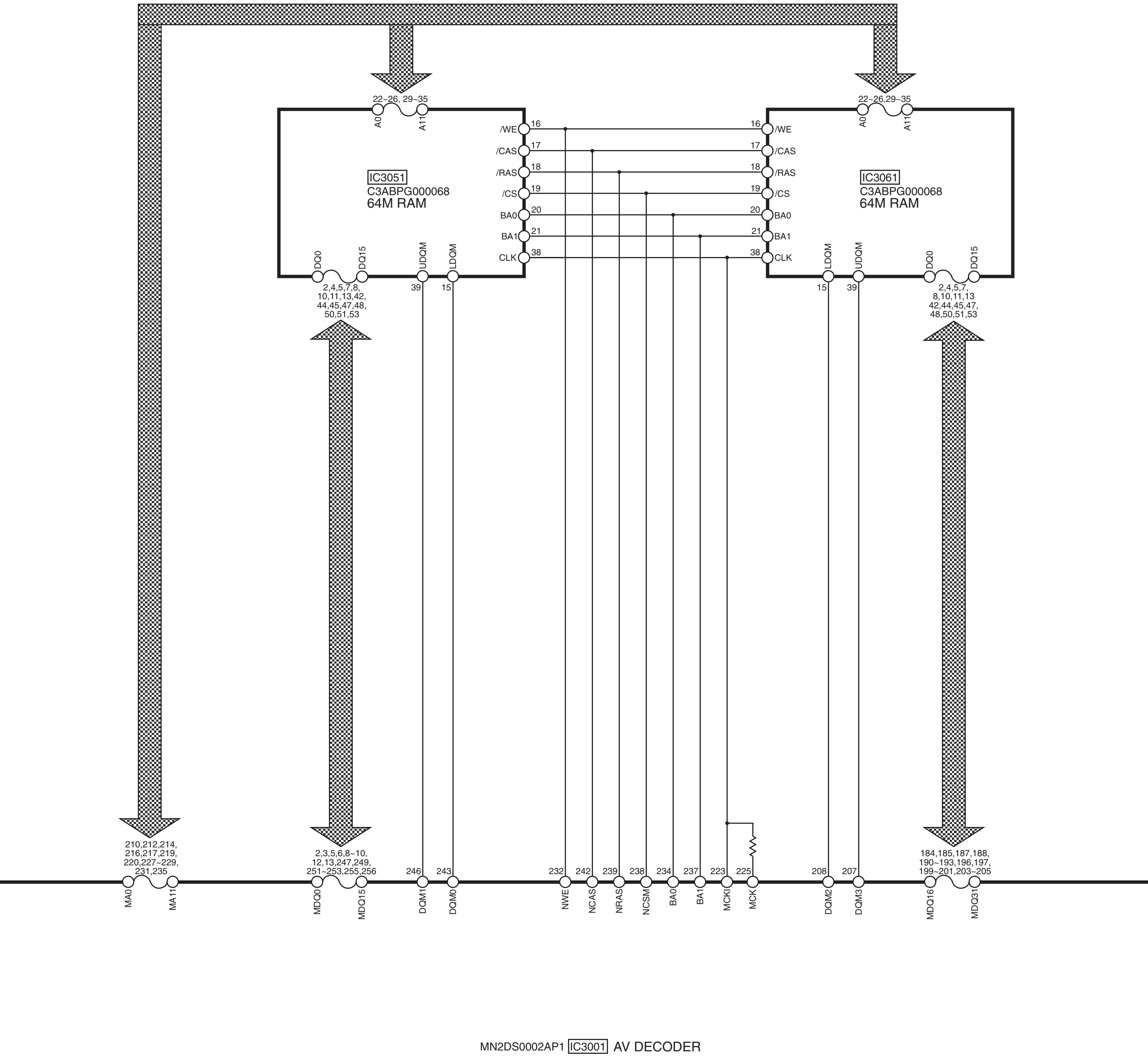
I LOADING MOTOR CIRCUIT

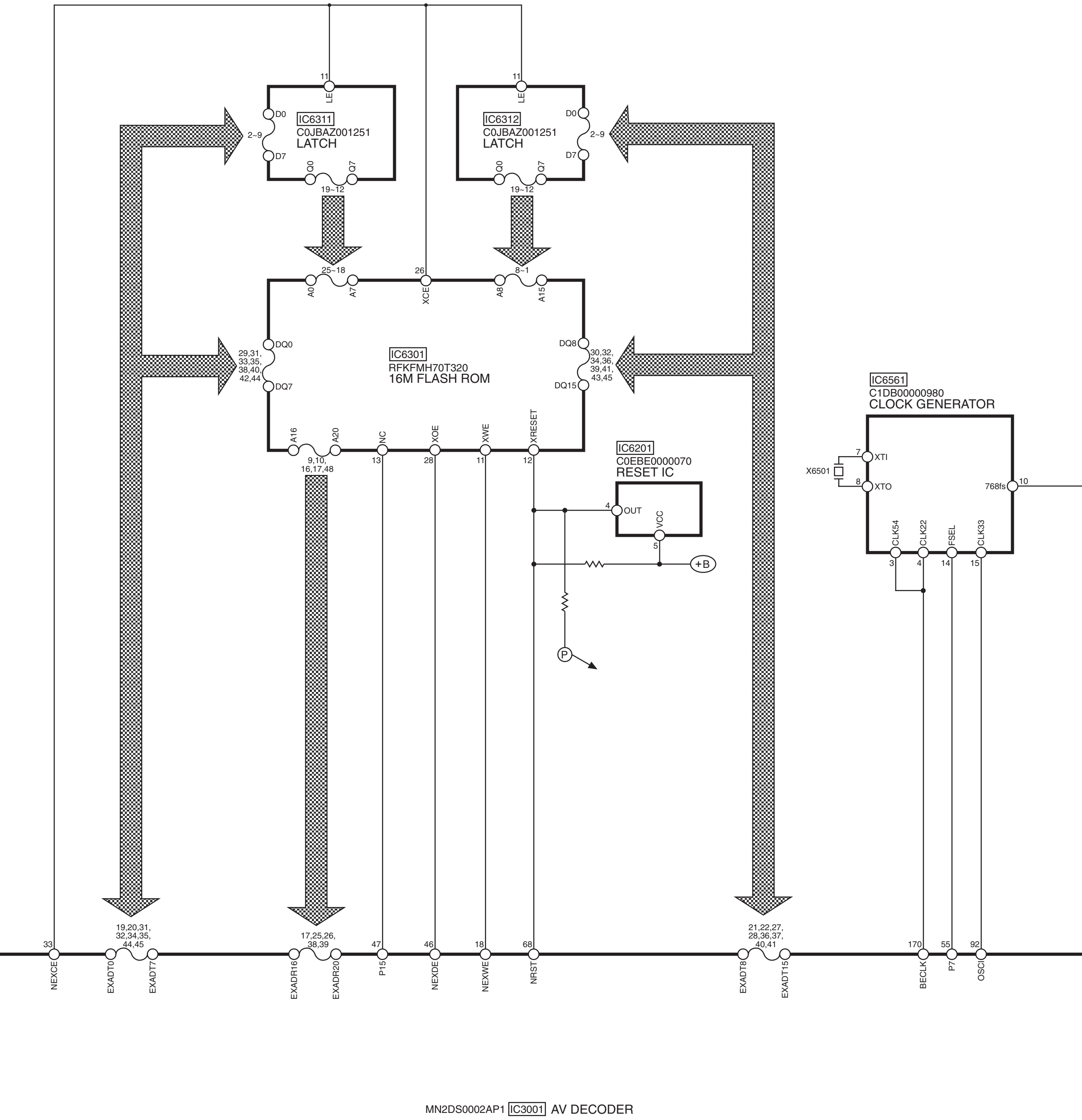

Q9001
B3NAA0000068
PHOTO INTERRUPTOR
Q9001
M9001
LOADING MOTOR
M
S9001
DGND
LOADINGMOTOR+
DGND
LOADINGMOTOR-
DGND
CAM_SENSOR
DGND
PHOTO_DRV/C
DGND
LOADING_SW
DGND
CN9003
TO C MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-21

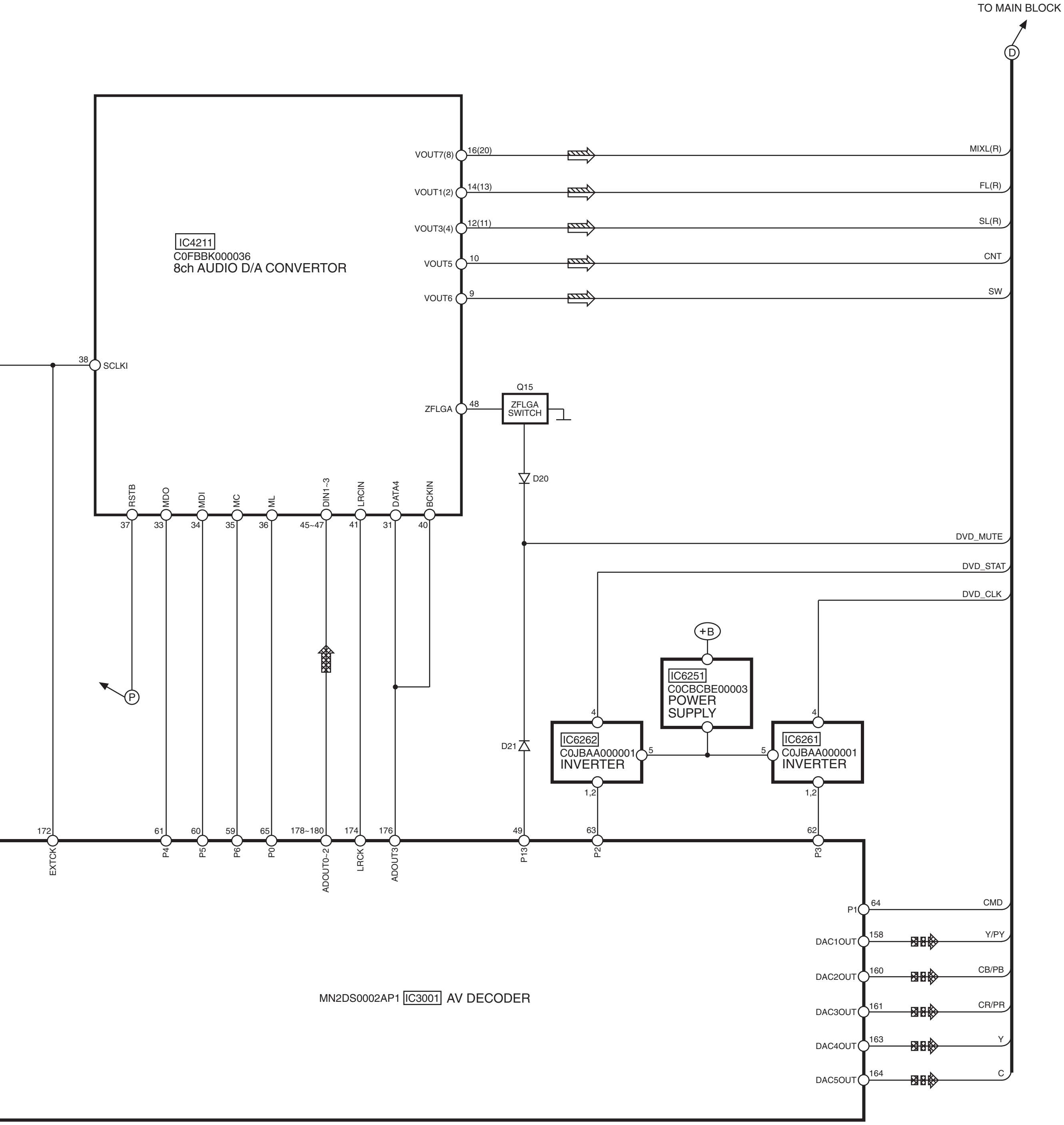

VOLUME
VR900
Z900
G PANEL P.C.B.
CN900
1 21
2 22
SENSOR
OPTICAL PICKUP
TO SPINDLE MOTOR ASSEMBLY
CN301
1 11
2 10
CN302
22 2
21 1
1 11
CN9102
J SENSOR P.C.B.
FC9101
6 5 4 3 2 1
1 11
10
2
1
CN309
1 . 3
X800
10 . . . 2
11 1
CN308
11
10
2 1
CN901
A DVD MODULE (1) P.C.B.
SIDE:A
C MAIN P.C.B.
FP2501
2 1
14 15
1 26
13 14
CN306
1 22
11 12
CN305
FP5101
1
30
CN303
1
11
PHONES
JK901
L HEADPHONE P.C.B.
1
30
CN300
1 19
2 18
CN307
1 . . . 5
W304
JK301
JK304
JK303
JK300
VIDEO OUT
LINE OUT
AUX
VCR AUDIO IN
TV AUDIO IN
TO ACTIVE SUBWOOFER
F DPS P.C.B.
1 · · 3
JK600
1
30
CN600
5
1
CN304
11
1
CN9003
M9001
+
-
M
11 1
CP703
D TUNER INTERFACE P.C.B.
CP702
11 1
COMPONENT VIDEO OUT
JK302
M9101
+
-
M
1 2 3 4 5 6
FC9101
H TRAY MOTOR P.C.B.
E VIDEO OUT P.C.B.
I LOADING MOTOR P.C.B.

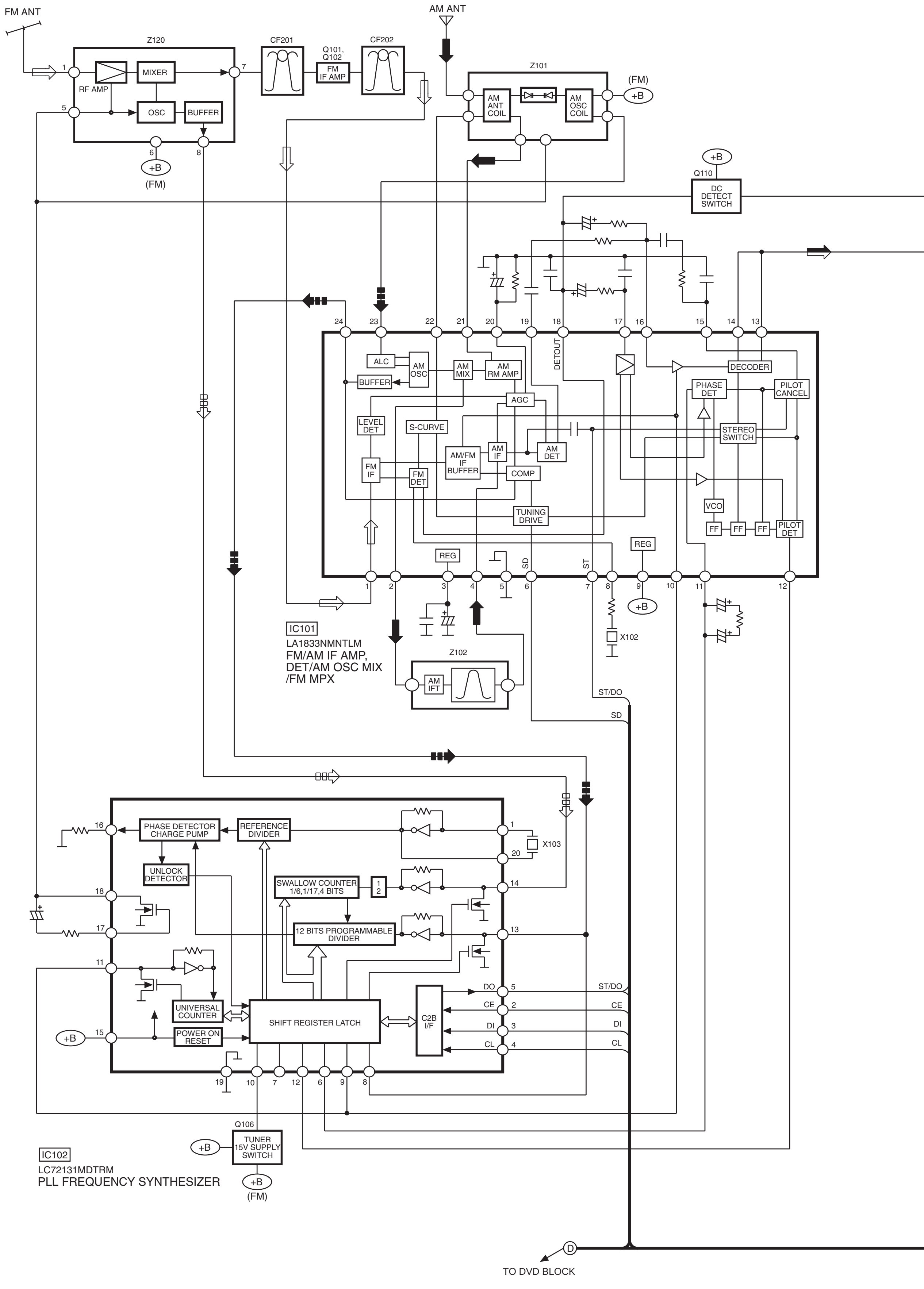

A DVD MODULE (1) P.C.B.
SIDE:B
FP5102
1 50
AV OUT
M SCART P.C.B.
21 1
20 2
CN951
CN950
2 18
1 19
K TUNER P.C.B.
JK101
Z120 (TUNER PACK)
1 . 3
CF201
Z101
FM LOOP ANTENNA
AM LOOP ANTENNA
Z102
CF202
3 . 1
CF202
CP100
1 11
50 1
FP5201
B DVD MODULE (2) P.C.B.
SIDE:A
1
26
PS4201
13
14
1
22
PS3201
11
12
B DVD MODULE (2) P.C.B.
SIDE:B

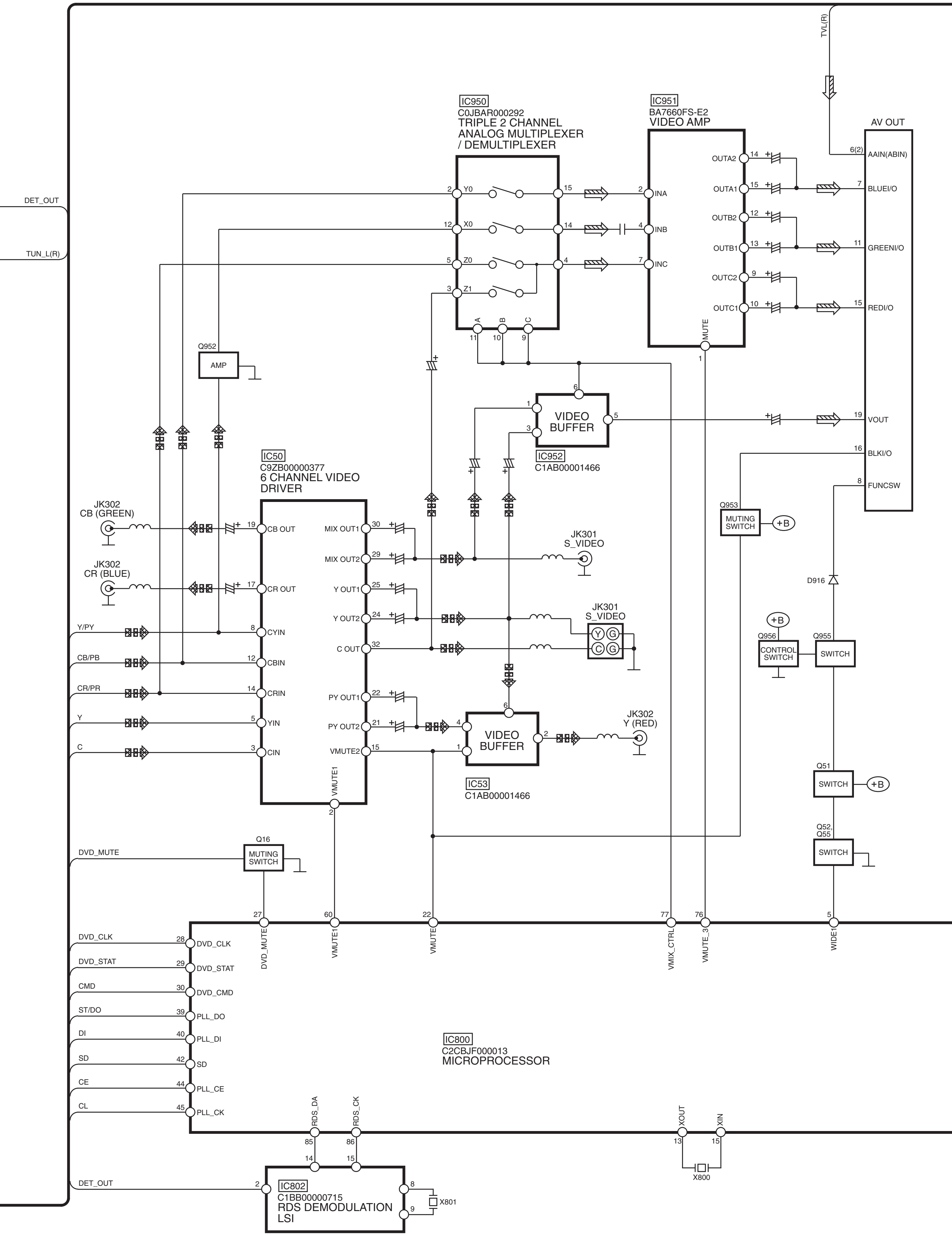

OPTICAL PICKUP
CDM
HFM
DVDM
MON
F2
F1
F
E
LD
2
10
4
8
6
11
LDIN
3.3V
LDOUT
5
15
LD
2
3
T1
T2
T3
T4
F1
F2
MON
SW
RFP
RFN
4
5
6
7
12
13
8
14
10
11
FOCUS COIL
TRACKING COIL
F-
F+
T-
T+
SPINDLE MOTOR UNIT
FEED-
FEED+
SW
COIL_W
COIL_U
COIL_V
HU+
HU-
HV+
HV-
HW+
HW-
H-
11
12
13
14
18
17
VO2-
VO2+
VO1-
VO1+
VO3-
VO3+
BIAS1
OPIN+
OPIN-
LDIN
BIAS2
TRIN
1
4
5
24
25
26
IC2521
C0GBG0000033
MOTOR DRIVE
MUTE12
MUTE3
VIN1
VIN2
VIN3
9
27
2
3
23
21
Ecr
2
4
7
9
10
11
12
13
14
15
A3
A2
A1
H1+
H1-
H2+
H2-
H3+
H3-
VH
IC2501
C0GBF0000004
MOTOR DRIVE
BR
FG
Ec
PS
16
24
22
23
D5131
Q5211
SWITCH (SUPPLY CONTROL)
+B
Q5115
CD SUPPLY SWITCH
+B
Q5111
LD SUPPLY SWITCH
Q5225
AMPLIFIER
Q5221
AMPLIFIER
FILTER
134
122
123
130
131
135
146
133
73
126
127
128
129
124
125
132
77
121
120
78
150
152
70
137
147
140
66
71
74
76
LPC2
VIN5
VIN6
VIN9
VIN10
LPC02
AD2
LPC01
DRV3
VIN1
VIN2
VIN3
VIN4
VIN7
VIN8
LPC1
DRV7
RFINP
RFINN
DRV8
DAC1
DAC0
DRV0
VHALF
AD1
CSLFLT
FG
DRV1
DRV4
DRV6
MN2DS0002AP1 IC3001 AV DECODER

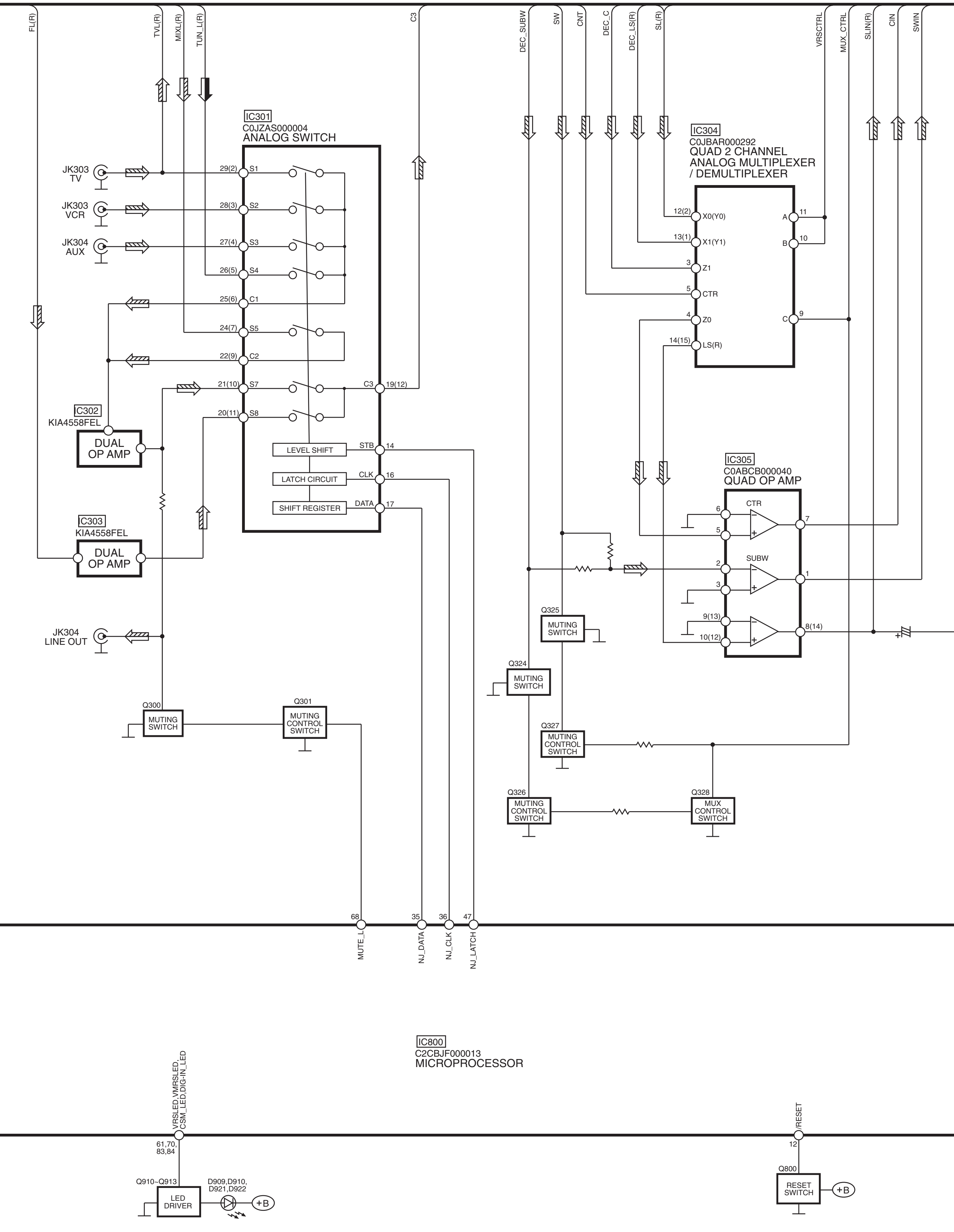

IC3051
C3ABPG000068
64M RAM
IC3061
C3ABPG000068
64M RAM
22~26, 29~35
22~26,29~35
A0
A11
/WE 16
/CAS 17
/RAS 18
/CS 19
BA0 20
BA1 21
CLK 38
DQ0
DQ15
UDQM
LDQM
2,4,5,7,8,
10,11,13,42,
44,45,47,48,
50,51,53
39
15
2,4,5,7,
8,10,11,13
42,44,45,47,
48,50,51,53
210,212,214,
216,217,219,
220,227~229,
231,235
2,3,5,6,8~10,
12,13,247,249,
251~253,255,256
184,185,187,188,
190~193,196,197,
199~201,203~205
MA0
MA11
MDQ0
MDQ15
246 DQM1
243 DQM0
232 NWE
242 NCAS
239 NRAS
238 NCSM
234 BA0
237 BA1
223 MCKI
225 MCK
208 DQM2
207 DQM3
MDQ16
MDQ31
MN2DS0002AP1 IC3001 AV DECODER

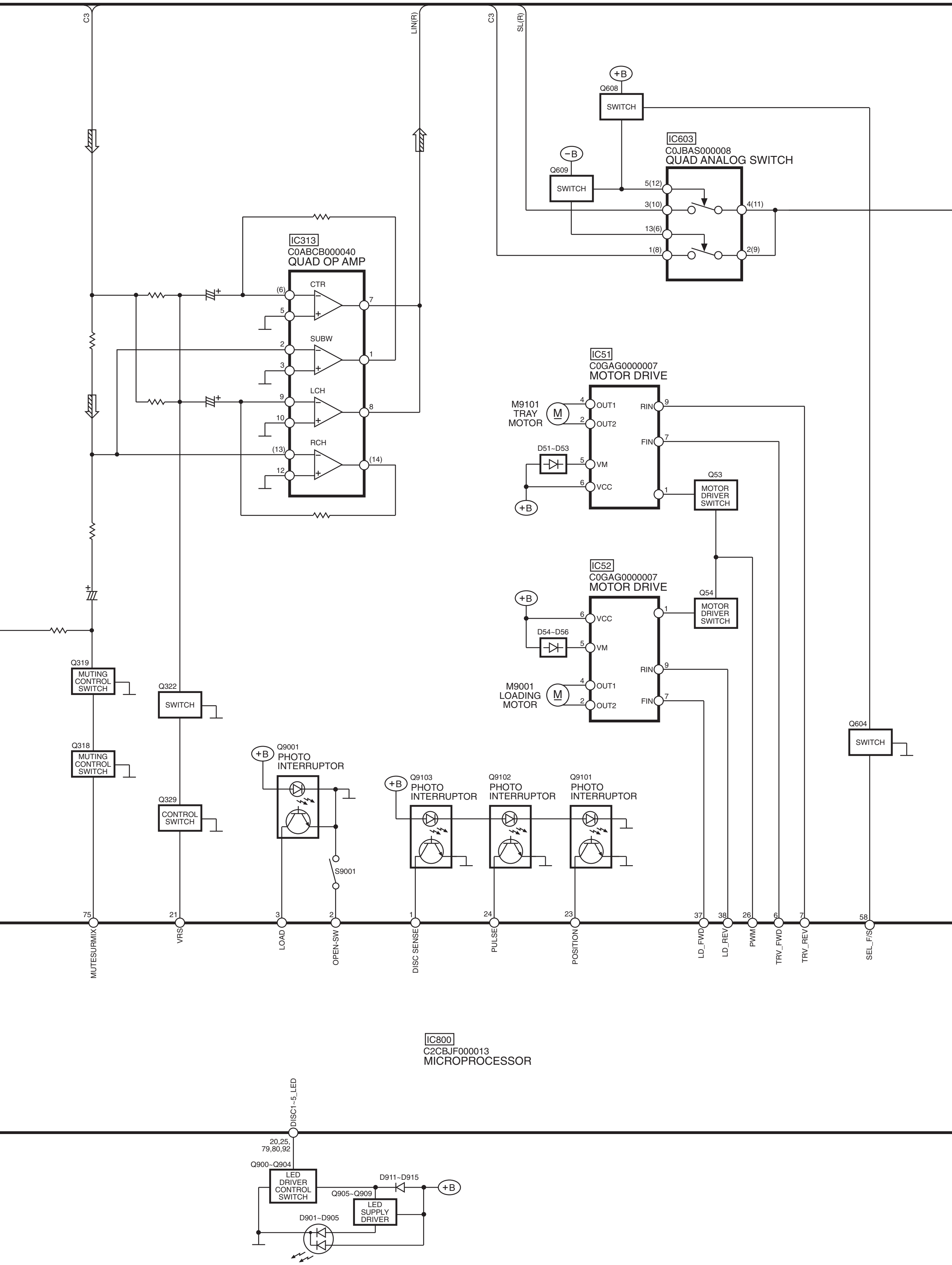

IC6311
C0JBAZ001251
LATCH
IC6312
C0JBAZ001251
LATCH
LE
11
D0
D7
2~9
Q0
Q7
19~12
IC6301
RFKFMH70T320
16M FLASH ROM
25~18
A0
A7
26
XCE
8~1
A8
A15
DQ0
DQ7
29,31,
33,35,
38,40,
42,44
DQ8
DQ15
30,32,
34,36,
39,41,
43,45
A16
A20
9,10,
16,17,48
NC
13
XOE
28
XWE
11
XRESET
12
IC6201
C0EBE0000070
RESET IC
4
OUT
VCC
5
+B
P
IC6561
C1DB00000980
CLOCK GENERATOR
X6501
7
XTI
8
XTO
768fs
10
CLK54
3
CLK22
4
FSEL
14
CLK33
15
33
NEXCE
19,20,31,
32,34,35,
44,45
EXADT0
EXADT7
17,25,26,
38,39
EXADR16
EXADR20
47
P15
46
NEXDE
18
NEXWE
68
NRST
21,22,27,
28,36,37,
40,41
EXADT8
EXADT15
170
BECLK
55
P7
92
OSCI
MN2DS0002AP1 IC3001 AV DECODER

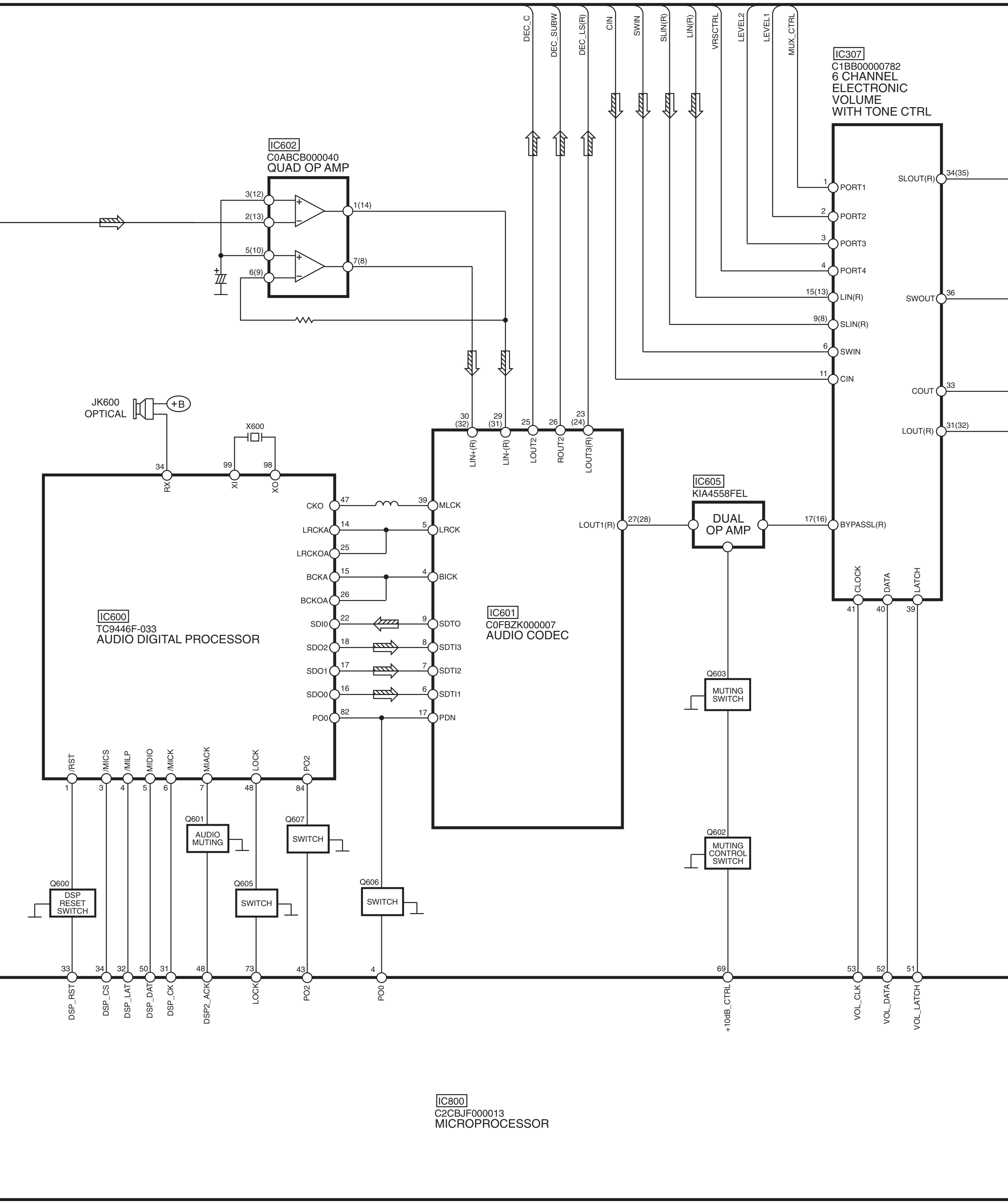

TO MAIN BLOCK
D
IC4211
C0FBBK000036
8ch AUDIO D/A CONVERTOR
VOUT7(8)
16(20)
MIXL(R)
VOUT1(2)
14(13)
FL(R)
VOUT3(4)
12(11)
SL(R)
VOUT5
10
CNT
VOUT6
9
SW
38
SCLKI
ZFLGA
48
Q15
ZFLGA SWITCH
D20
RSTB
MDO
MDI
MC
ML
DIN1~3
LRCIN
DATA4
BCKIN
37
33
34
35
36
45~47
41
31
40
DVD_MUTE
DVD_STAT
DVD_CLK
P
+B
IC6251
C0CBCBE00003
POWER SUPPLY
4
IC6262
C0JBAA000001
INVERTER
5
1,2
4
IC6261
C0JBAA000001
INVERTER
5
1,2
D21
172
EXTCK
61
P4
60
P5
59
P6
65
P0
178~180
ADOUT0~2
174
LRCK
176
ADOUT3
49
P13
63
P2
62
P3
P1
64
CMD
DAC1OUT
158
Y/PY
DAC2OUT
160
CB/PB
DAC3OUT
161
CR/PR
DAC4OUT
163
Y
DAC5OUT
164
C
MN2DS0002AP1
IC3001
AV DECODER

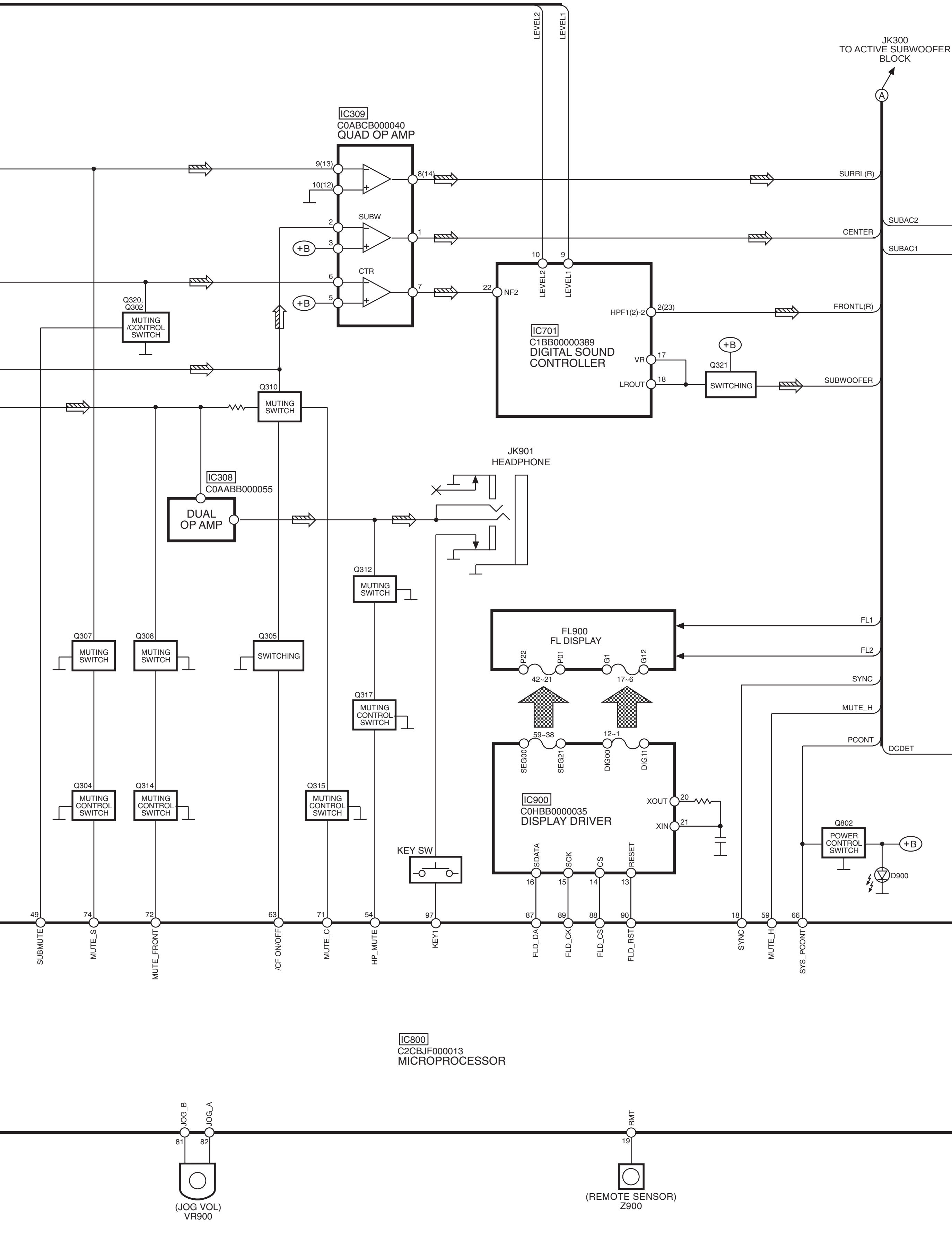

FM ANT
AM ANT
Z120
RF AMP
MIXER
OSC
BUFFER
1
5
6
7
8
+B
(FM)
CF201
Q101,
Q102
FM
IF AMP
CF202
Z101
AM
ANT
COIL
AM
OSC
COIL
(FM)
+B
+B
Q110
DC
DETECT
SWITCH
24
23
22
21
20
19
18
17
16
15
14
13
ALC
AM
OSC
BUFFER
AM
MIX
AM
RM AMP
DETOUT
AGC
LEVEL
DET
S-CURVE
FM
IF
FM
DET
AM/FM
IF
BUFFER
AM
IF
AM
DET
COMP
TUNING
DRIVE
DECODER
PHASE
DET
PILOT
CANCEL
STEREO
SWITCH
VCO
FF
FF
FF
PILOT
DET
REG
REG
SD
ST
1
2
3
4
5
6
7
8
9
10
11
12
+B
X102
IC101
LA1833NMNTLM
FM/AM IF AMP,
DET/AM OSC MIX
/FM MPX
Z102
AM
IFT
ST/DO
SD
16
PHASE DETECTOR
CHARGE PUMP
REFERENCE
DIVIDER
1
20
X103
UNLOCK
DETECTOR
SWALLOW COUNTER
1/6,1/17,4 BITS
1
2
14
18
17
12 BITS PROGRAMMABLE
DIVIDER
13
11
UNIVERSAL
COUNTER
SHIFT REGISTER LATCH
C2B
I/F
DO
5
ST/DO
CE
2
CE
DI
3
DI
CL
4
CL
+B
15
POWER ON
RESET
19
10
7
12
6
9
8
Q106
TUNER
15V SUPPLY
SWITCH
+B
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
D
TO DVD BLOCK


TVL(R)
IC950
C0JBAR000292
TRIPLE 2 CHANNEL
ANALOG MULTIPLEXER
/ DEMULTIPLEXER
Y0
X0
Z0
Z1
A
B
C
IC951
BA7660FS-E2
VIDEO AMP
INA
INB
INC
OUTA2
OUTA1
OUTB2
OUTB1
OUTC2
OUTC1
MUTE
AV OUT
AAIN(ABIN)
BLUEI/O
GREENI/O
REDI/O
VOUT
BLKI/O
FUNCSW
DET_OUT
TUN_L(R)
Q952
AMP
VIDEO
BUFFER
IC952
C1AB00001466
IC50
C9ZB00000377
6 CHANNEL VIDEO
DRIVER
JK302
CB (GREEN)
JK302
CR (BLUE)
CB OUT
CR OUT
CYIN
CBIN
CRIN
YIN
CIN
MIX OUT1
MIX OUT2
Y OUT1
Y OUT2
C OUT
PY OUT1
PY OUT2
VMUTE2
VMUTE1
Y/PY
CB/PB
CR/PR
Y
C
JK301
S_VIDEO
JK301
S_VIDEO
Y
G
C
G
VIDEO
BUFFER
IC53
C1AB00001466
JK302
Y (RED)
Q953
MUTING
SWITCH
+B
D916
Q956
+B
CONTROL
SWITCH
Q955
SWITCH
Q51
SWITCH
+B
Q52,
Q55
SWITCH
Q16
MUTING
SWITCH
DVD_MUTE
DVD_CLK
DVD_STAT
CMD
ST/DO
DI
SD
CE
CL
DVD_MUTE
VMUTE1
VMUTE
VMIX_CTRL
VMUTE_3
WIDE1
DVD_CLK
DVD_STAT
DVD_CMD
PLL_DO
PLL_DI
SD
PLL_CE
PLL_CK
IC800
C2CBJF000013
MICROPROCESSOR
RDS_DA
RDS_CK
XOUT
XIN
X800
DET_OUT
IC802
C1BB00000715
RDS DEMODULATION
LSI
X801
2
12
5
3
15
14
4
11
10
9
2
4
7
14
15
12
13
9
10
1
6(2)
7
11
15
19
16
8
6
1
3
5
19
17
8
12
14
5
3
30
29
25
24
32
22
21
15
2
6
4
1
2
27
60
22
77
76
5
28
29
30
39
40
42
44
45
85
86
14
15
13
15
2
8
9


FL(R)
TVL(R)
MIXL(R)
TUN_L(R)
C3
DEC_SUBW
SW
CNT
DEC_C
DEC_LS(R)
SL(R)
VRSCTRL
MUX_CTRL
SLIN(R)
CIN
SWIN
IC301
C0JZAS000004
ANALOG SWITCH
JK303
TV
JK303
VCR
JK304
AUX
29(2) S1
28(3) S2
27(4) S3
26(5) S4
25(6) C1
24(7) S5
22(9) C2
21(10) S7
20(11) S8
C3 19(12)
LEVEL SHIFT
LATCH CIRCUIT
SHIFT REGISTER
STB 14
CLK 16
DATA 17
IC302
KIA4558FEL
DUAL
OP AMP
IC303
KIA4558FEL
DUAL
OP AMP
JK304
LINE OUT
Q300
MUTING
SWITCH
Q301
MUTING
CONTROL
SWITCH
IC304
C0JBAR000292
QUAD 2 CHANNEL
ANALOG MULTIPLEXER
/ DEMULTIPLEXER
12(2) X0(Y0)
13(1) X1(Y1)
3 Z1
5 CTR
4 Z0
14(15) LS(R)
A 11
B 10
C 9
IC305
C0ABCB000040
QUAD OP AMP
CTR
6
5
7
SUBW
2
3
1
9(13)
10(12)
8(14)
Q325
MUTING
SWITCH
Q324
MUTING
SWITCH
Q327
MUTING
CONTROL
SWITCH
Q326
MUTING
CONTROL
SWITCH
Q328
MUX
CONTROL
SWITCH
68
35
36
47
MUTE_L
NJ_DATA
NJ_CLK
NJ_LATCH
IC800
C2CBJF000013
MICROPROCESSOR
VRSLED,VMRSLED,
CSM_LED,DIG-IN_LED
61,70,
83,84
Q910~Q913
LED
DRIVER
D909,D910,
D921,D922
+B
/RESET
12
Q800
RESET
SWITCH
+B


C3
LIN(R)
C3
SL(R)
+B
Q608
SWITCH
IC603
C0JBAS000008
QUAD ANALOG SWITCH
−B
Q609
SWITCH
5(12)
3(10)
13(6)
1(8)
4(11)
2(9)
IC313
C0ABCB000040
QUAD OP AMP
CTR
(6)
5
7
SUBW
2
3
1
LCH
9
10
8
RCH
(13)
12
(14)
IC51
C0GAG0000007
MOTOR DRIVE
M9101
TRAY
MOTOR
M
4
OUT1
2
OUT2
RIN
9
FIN
7
D51~D53
5
VM
6
VCC
+B
1
Q53
MOTOR
DRIVER
SWITCH
IC52
C0GAG0000007
MOTOR DRIVE
+B
6
VCC
D54~D56
5
VM
Q54
MOTOR
DRIVER
SWITCH
1
RIN
9
M9001
LOADING
MOTOR
M
4
OUT1
2
OUT2
FIN
7
Q319
MUTING
CONTROL
SWITCH
Q322
SWITCH
Q318
MUTING
CONTROL
SWITCH
Q329
CONTROL
SWITCH
+B
Q9001
PHOTO
INTERRUPTOR
S9001
+B
Q9103
PHOTO
INTERRUPTOR
Q9102
PHOTO
INTERRUPTOR
Q9101
PHOTO
INTERRUPTOR
Q604
SWITCH
75
MUTESURMIX
21
VRS
3
LOAD
2
OPEN-SW
1
DISC SENSE
24
PULSE
23
POSITION
37
LD_FWD
38
LD_REV
26
PWM
6
TRV_FWD
7
TRV_REV
58
SEL_F/S
IC800
C2CBJF000013
MICROPROCESSOR
DISC1~5_LED
20,25,
79,80,92
Q900~Q904
LED
DRIVER
CONTROL
SWITCH
D911~D915
+B
Q905~Q909
LED
SUPPLY
DRIVER
D901~D905


DEC_C
DEC_SUBW
DEC_LS(R)
CIN
SWIN
SLIN(R)
LIN(R)
VRSCTRL
LEVEL2
LEVEL1
MUX_CTRL
IC307
C1BB00000782
6 CHANNEL
ELECTRONIC
VOLUME
WITH TONE CTRL
1 PORT1
2 PORT2
3 PORT3
4 PORT4
15(13) LIN(R)
9(8) SLIN(R)
6 SWIN
11 CIN
SLOUT(R) 34(35)
SWOUT 36
COUT 33
LOUT(R) 31(32)
17(16) BYPASSL(R)
CLOCK 41
DATA 40
LATCH 39
IC602
C0ABCB000040
QUAD OP AMP
3(12)
2(13)
5(10)
6(9)
1(14)
7(8)
JK600
OPTICAL
+B
X600
34 RX
99 XI
98 XO
IC600
TC9446F-033
AUDIO DIGITAL PROCESSOR
CKO 47
LRCKA 14
LRCKOA 25
BCKA 15
BCKOA 26
SDI0 22
SDO2 18
SDO1 17
SDO0 16
PO0 82
/RST 1
/MICS 3
/MILP 4
MIDIO 5
/MICK 6
MIACK 7
LOCK 48
PO2 84
IC601
C0FBZK000007
AUDIO CODEC
30 (32) LIN+(R)
29 (31) LIN-(R)
25 LOUT2
26 ROUT2
23 (24) LOUT3(R)
39 MLCK
5 LRCK
4 BICK
9 SDTO
8 SDTI3
7 SDTI2
6 SDTI1
17 PDN
LOUT1(R) 27(28)
IC605
KIA4558FEL
DUAL
OP AMP
Q603
MUTING
SWITCH
Q602
MUTING
CONTROL
SWITCH
Q601
AUDIO
MUTING
Q607
SWITCH
Q600
DSP
RESET
SWITCH
Q605
SWITCH
Q606
SWITCH
33 DSP_RST
34 DSP_CS
32 DSP_LAT
50 DSP_DAT
31 DSP_CK
48 DSP2_ACK
73 LOCK
43 PO2
4 PO0
69 +10dB_CTRL
53 VOL_CLK
52 VOL_DATA
51 VOL_LATCH
IC800
C2CBJF000013
MICROPROCESSOR

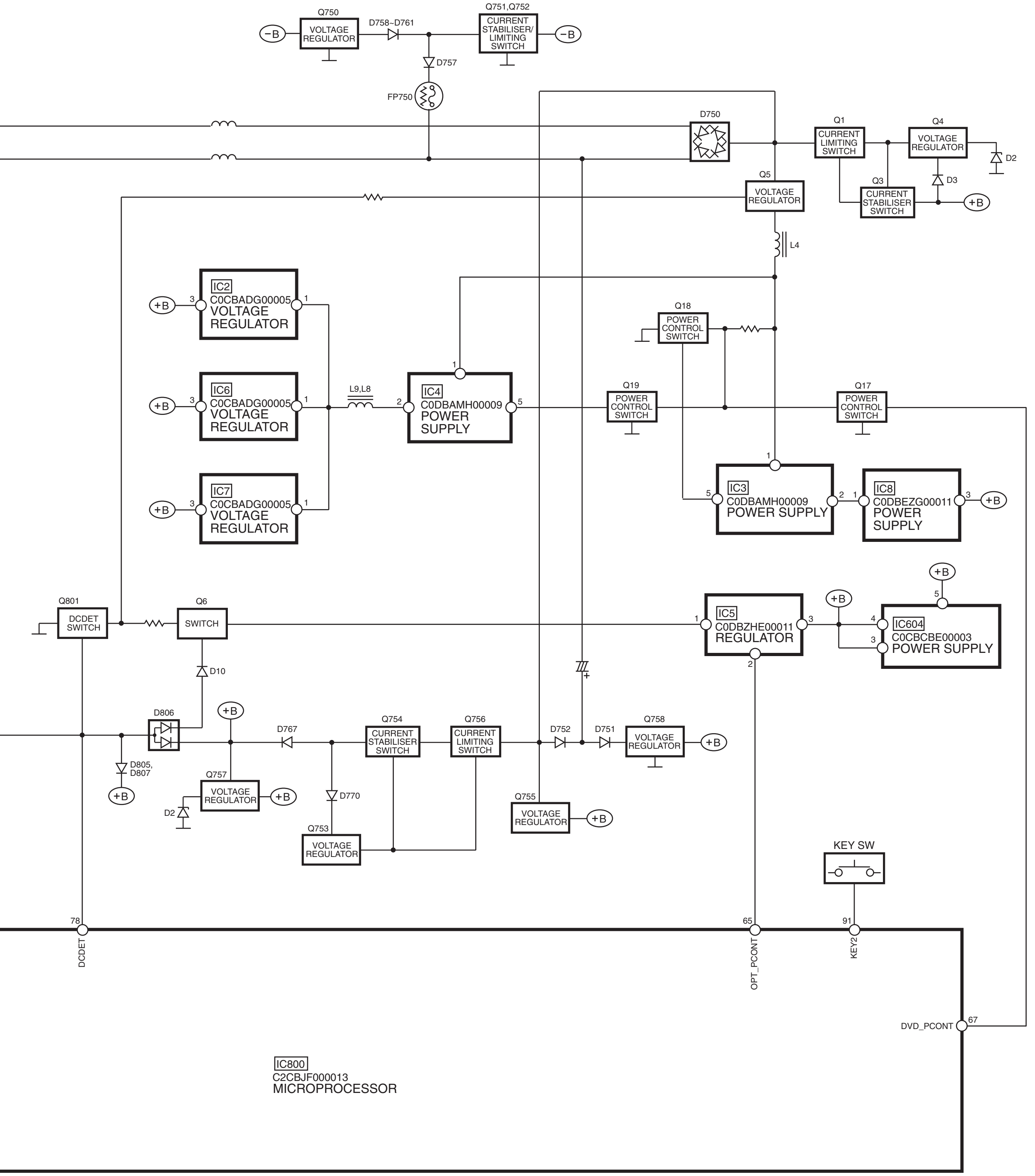

LEVEL2
LEVEL1
JK300
TO ACTIVE SUBWOOFER
BLOCK
A
IC309
C0ABCB000040
QUAD OP AMP
9(13)
10(12)
8(14)
SUBW
2
3
1
+B
CTR
6
5
7
+B
SURRL(R)
SUBAC2
CENTER
SUBAC1
10
9
22
NF2
LEVEL2
LEVEL1
HPF1(2)-2
2(23)
FRONTL(R)
IC701
C1BB00000389
DIGITAL SOUND
CONTROLLER
VR
17
LROUT
18
+B
Q321
SWITCHING
SUBWOOFER
Q320,
Q302
MUTING
/CONTROL
SWITCH
Q310
MUTING
SWITCH
JK901
HEADPHONE
IC308
C0AABB000055
DUAL
OP AMP
Q312
MUTING
SWITCH
Q317
MUTING
CONTROL
SWITCH
FL900
FL DISPLAY
P22
P01
G1
G12
42~21
17~6
FL1
FL2
SYNC
MUTE_H
PCONT
DCDET
59~38
12~1
SEG00
SEG21
DIG00
DIG11
IC900
C0HBB0000035
DISPLAY DRIVER
XOUT
20
XIN
21
SDATA
SCK
CS
RESET
16
15
14
13
Q802
POWER
CONTROL
SWITCH
+B
D900
Q307
MUTING
SWITCH
Q308
MUTING
SWITCH
Q305
SWITCHING
Q304
MUTING
CONTROL
SWITCH
Q314
MUTING
CONTROL
SWITCH
Q315
MUTING
CONTROL
SWITCH
KEY SW
49
74
72
63
71
54
97
87
89
88
90
18
59
66
SUBMUTE
MUTE_S
MUTE_FRONT
/CF ON/OFF
MUTE_C
HP_MUTE
KEY1
FLD_DA
FLD_CK
FLD_CS
FLD_RST
SYNC
MUTE_H
SYS_PCONT
IC800
C2CBJF000013
MICROPROCESSOR
JOG_B
JOG_A
81
82
RMT
19
(JOG VOL)
VR900
(REMOTE SENSOR)
Z900

SIGNAL LINES

▨ : MAIN SIGNAL LINE	➡ : AM SIGNAL LINE	▩ : DVD AUDIO SIGNAL LINE
⇨ : FM SIGNAL LINE	▮▮➡ : AM OSC SIGNAL LINE	▩ : DVD VIDEO SIGNAL LINE
▯▯⇨ : FM OSC SIGNAL LINE	⇨ : FM /AM SIGNAL LINE	▩ : CD-DA (AUDIO /VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

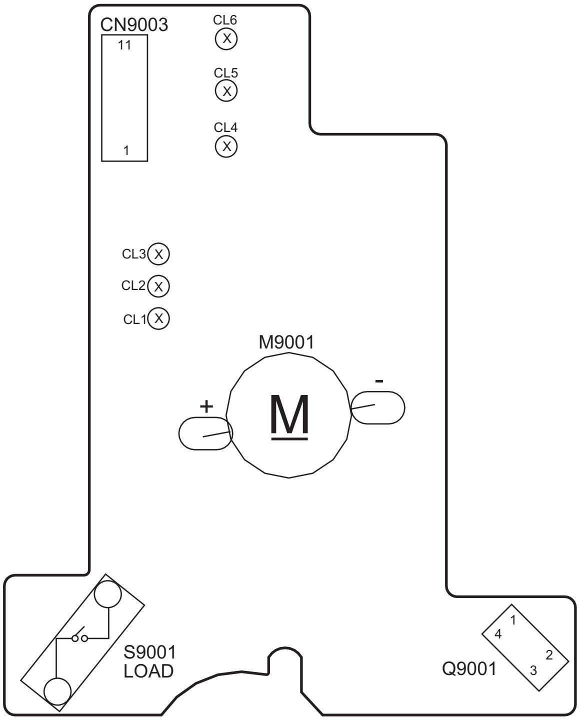


Q750
VOLTAGE REGULATOR
−B
D758~D761
Q751,Q752
CURRENT STABILISER/ LIMITING SWITCH
−B
D757
FP750
D750
Q1
CURRENT LIMITING SWITCH
Q4
VOLTAGE REGULATOR
D2
Q3
CURRENT STABILISER SWITCH
D3
+B
Q5
VOLTAGE REGULATOR
L4
IC2
C0CBADG00005
VOLTAGE REGULATOR
+B
3
1
IC6
C0CBADG00005
VOLTAGE REGULATOR
+B
3
1
IC7
C0CBADG00005
VOLTAGE REGULATOR
+B
3
1
L9,L8
IC4
C0DBAMH00009
POWER SUPPLY
1
2
5
Q18
POWER CONTROL SWITCH
Q19
POWER CONTROL SWITCH
Q17
POWER CONTROL SWITCH
IC3
C0DBAMH00009
POWER SUPPLY
1
5
2
IC8
C0DBEZG00011
POWER SUPPLY
1
3
+B
Q801
DCDET SWITCH
Q6
SWITCH
D10
IC5
C0DBZHE00011
REGULATOR
1
3
2
+B
+B
5
IC604
C0CBCBE00003
POWER SUPPLY
4
3
D806
+B
D767
Q754
CURRENT STABILISER SWITCH
Q756
CURRENT LIMITING SWITCH
D752
D751
Q758
VOLTAGE REGULATOR
+B
D805, D807
+B
Q757
VOLTAGE REGULATOR
+B
D2
D770
Q753
VOLTAGE REGULATOR
Q755
VOLTAGE REGULATOR
+B
KEY SW
78
DCDET
65
OPT_PCONT
91
KEY2
67
DVD_PCONT
IC800
C2CBJF000013
MICROPROCESSOR

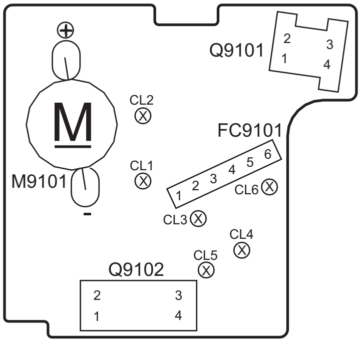
A B C D E F G

1 2 3 4 5 6 7 8 9

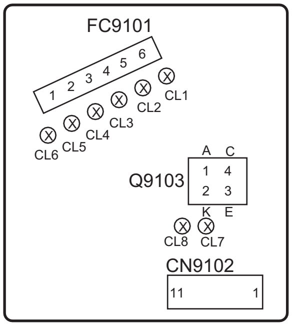
I LOADING MOTOR P.C.B (REP3465A)


CN9003
11
1
CL6
CL5
CL4
CL3
CL2
CL1
M9001
M
+
-
S9001
LOAD
Q9001
1
2
3
4

H TRAY MOTOR P..C.B (REP3466A)


⊕
M
M9101
-
Q9101
2
3
1
4
CL2
CL1
FC9101
1
2
3
4
5
6
CL6
CL3
CL4
CL5
Q9102
2
3
1
4

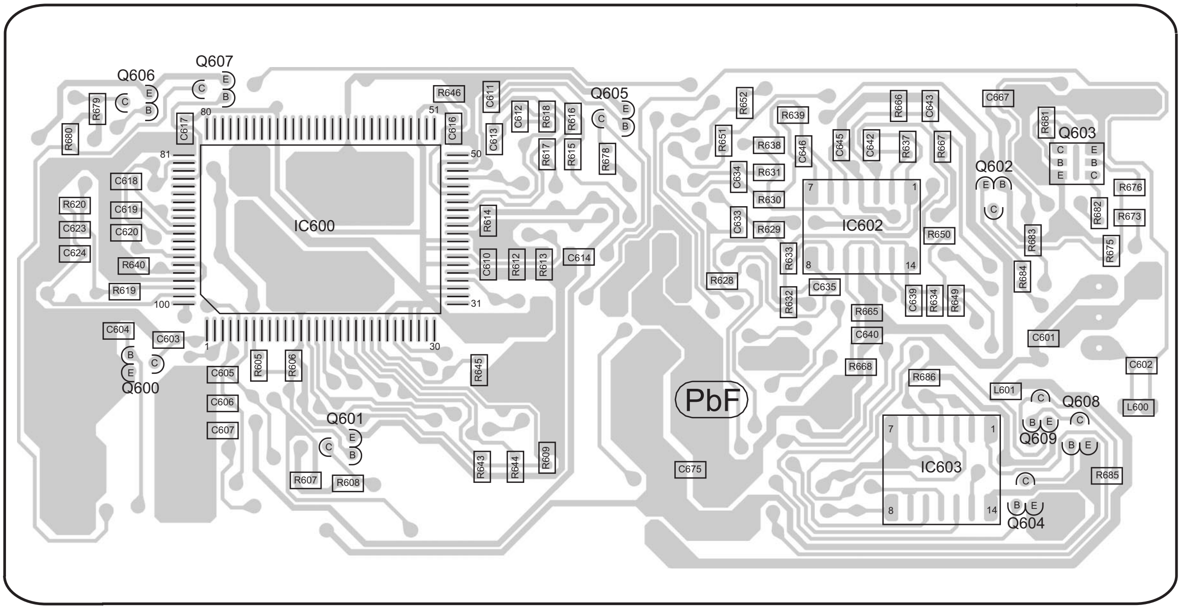
J SENSOR P.C.B (REP3466A)


FC9101
1
2
3
4
5
6
CL1
CL2
CL3
CL4
CL5
CL6
Q9103
A
C
1
4
2
3
K
E
CL8
CL7
CN9102
11
1

A B C D E F G

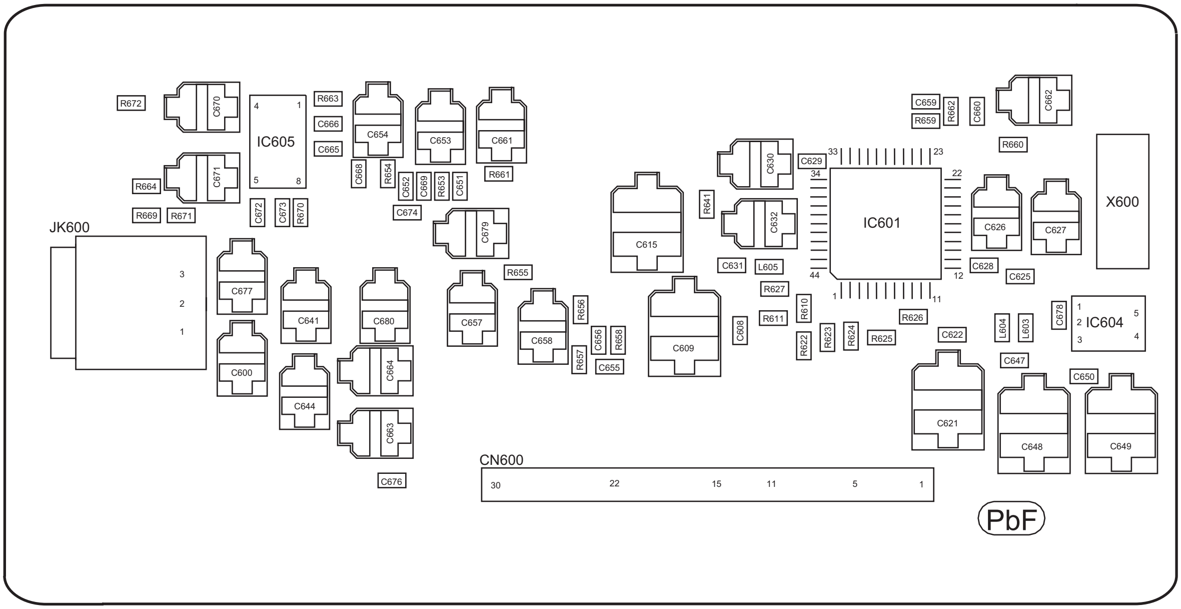
1 2 3 4 5 6 7 8 9

F DSP P.C.B (REPX0335A)


Q606
Q607
Q605
Q603
Q602
Q600
Q601
Q608
Q609
Q604
IC600
IC602
IC603
PbF
R679 R680 C617 C618 R620 C619 C623 C620 C624 R640 R619 C604 C603
R646 C611 C616 C613 C612 R618 R616 R617 R615 R678 R614 C610 R612 R613 C614
C605 C606 C607 R605 R606 R645 R643 R644 R609 R607 R608
R652 R639 R651 R638 R631 R630 R629 C634 C633 C646 C645 C642 R637 R667 R666 C643 C667
R633 R632 R628 C635 R665 C640 C639 R634 R649 R650 R668 R686
R681 R676 R682 R673 R683 R675 R684 C601 C602 L601 L600 R685 C675
80 51 81 50 100 31 1 30 7 1 8 14 7 1 8 14
C E B

SIDE A

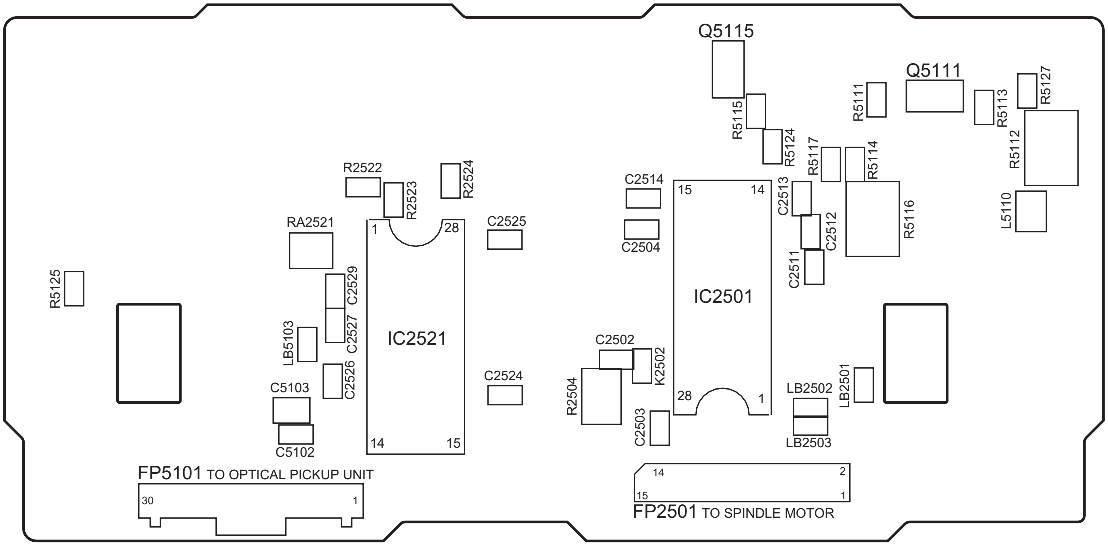
F DSP P.C.B (REPX0335A)


R672 C670 IC605 R663 C666 C665 C654 C653 C661
C671 R664 R669 R671 C668 R654 C652 C669 R653 C651 R661
C672 C673 R670 C674 C679
JK600
OPTICAL
3 2 1
C677 C600 C641 C644 C680 C664 C663 C676
R655 C657 C658 R656 R657 C656 R658 C655
C615 C609 R641 C630 C632 C629 C631 L605 R627 R611 R610 C608 R622 R623 R624 R625 R626
IC601
33 23 34 22 44 12 1 11
C659 R659 R662 C660 C662 R660 X600 C626 C627 C628 C625
C678 IC604 L604 L603 C622 C647 C650 C621 C648 C649
CN600
30 22 15 11 5 1
PbF

SIDE B

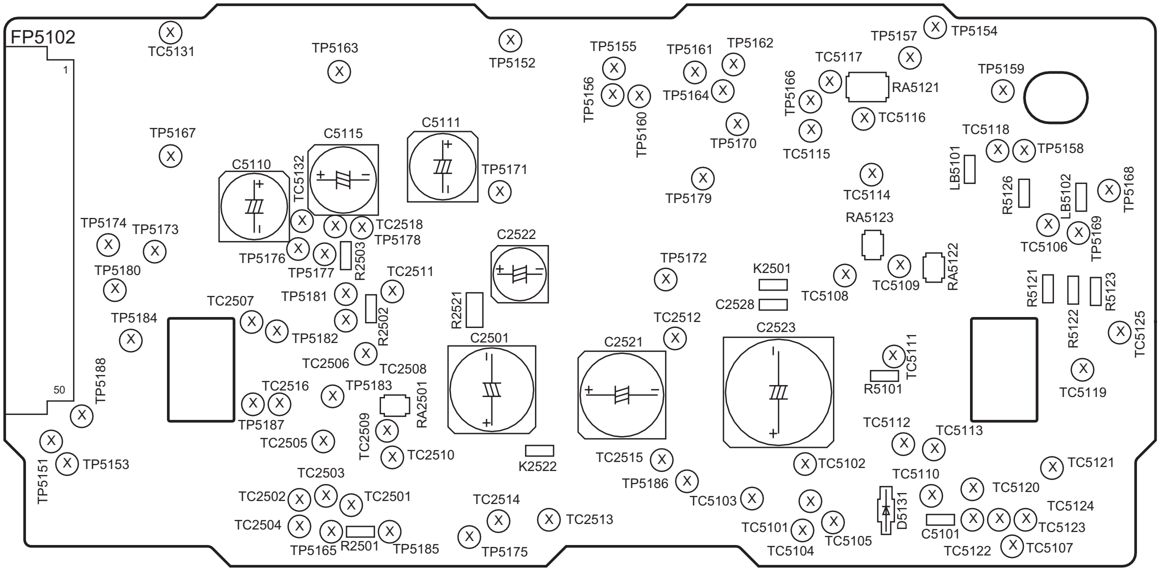
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

A DVD MODULE (1) P.C.B (REP3451A-N)


Q5115
Q5111
R5111
R5113
R5127
R5115
R5124
R5117
R5114
R5112
R2522
R2524
R2523
C2514
C2513
C2512
R5116
L5110
RA2521
1
28
C2525
15
14
C2504
IC2501
C2511
R5125
C2529
C2527
IC2521
LB5103
C2502
K2502
C2526
C2524
R2504
28
1
LB2502
LB2501
C5103
LB2503
C2503
C5102
14
15
FP5101 TO OPTICAL PICKUP UNIT
30
1
14
2
15
1
FP2501 TO SPINDLE MOTOR

(SIDE A)

A DVD MODULE (1) P.C.B (REP3451A-N)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TC5116
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C2522
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TC5119
TP5188
TC2516
TP5183
RA2501
TP5187
TC2509
TC2505
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TC5101
TC5123
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R2501
TP5185
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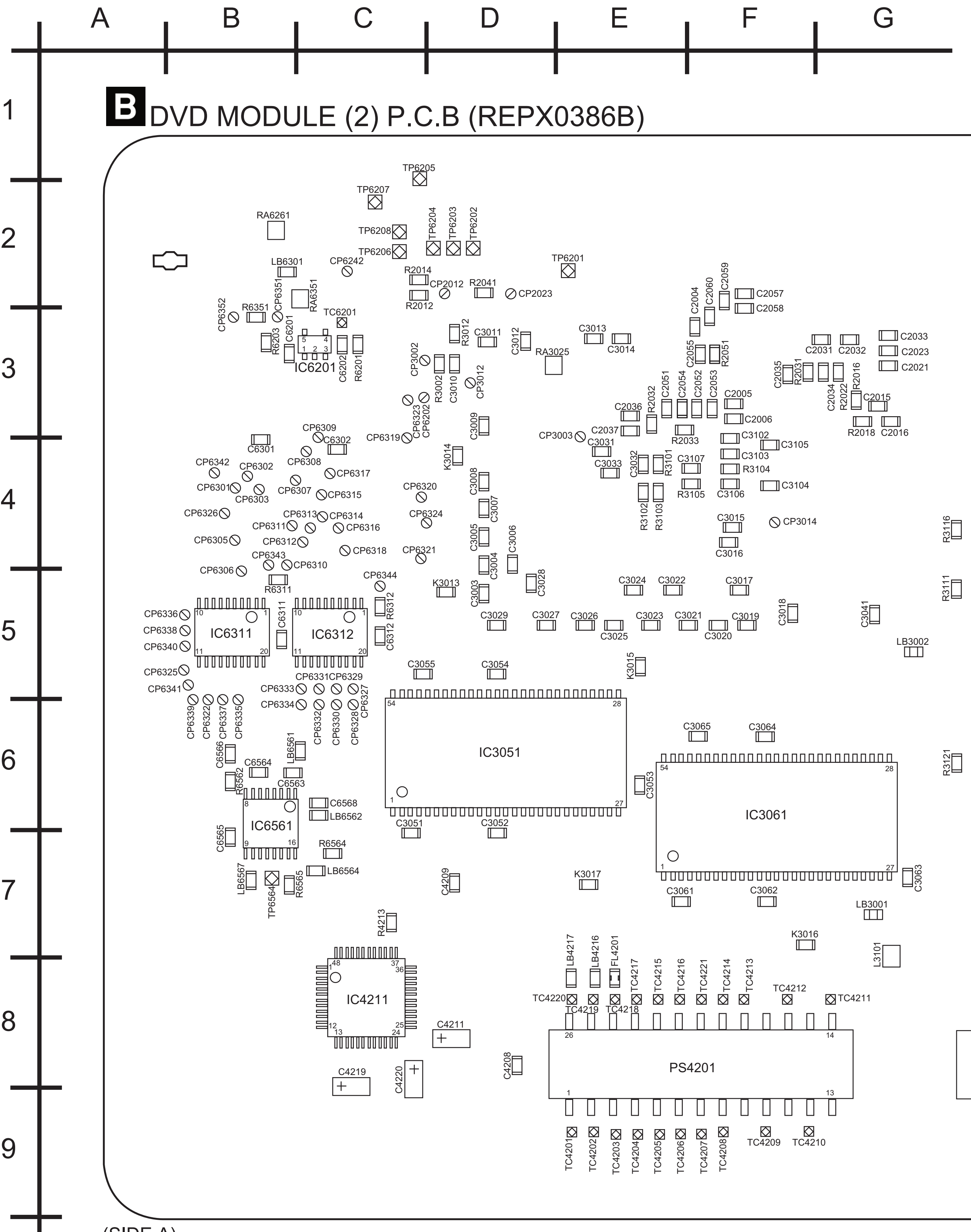
(SIDE B)

B DVD MODULE (2) P.C.B (REPX0386B)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TP6204
TP6203
TP6202
TP6201
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R2014
CP2012
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CP6352
R6351
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IC6201
C6202
R6201
R3012
C3011
C3012
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C3013
C3014
C2004
C2060
C2059
C2057
C2058
C2055
R2051
C2033
C2031
C2032
C2023
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CP3002
R3002
C3010
CP3012
C2035
R2031
C2034
R2022
R2016
C2015
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C2052
C2053
C2005
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C3052
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C6565
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C3063
C3061
C3062
LB3001
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L3101
LB4217
LB4216
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TC4212
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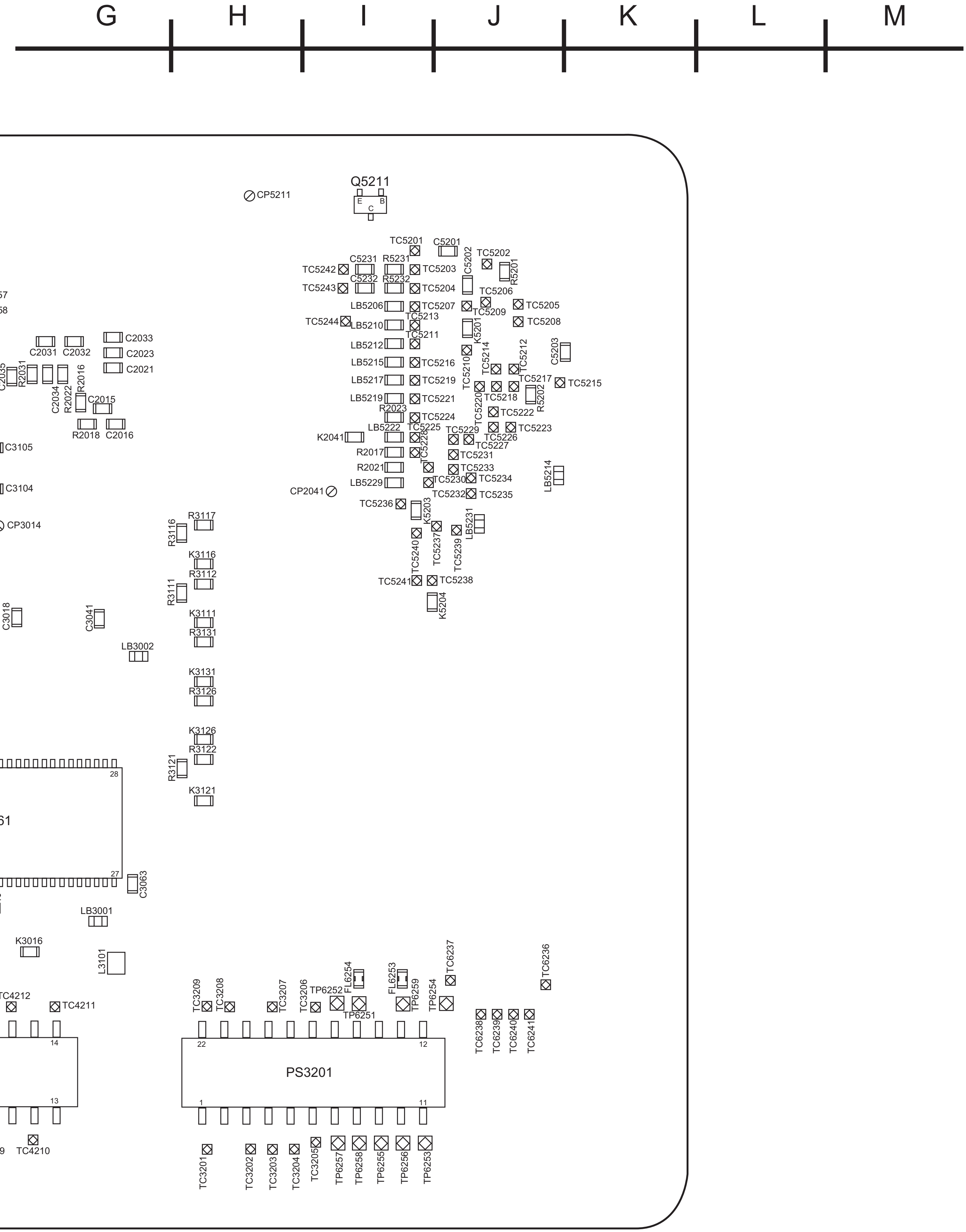
(SIDE A)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TC5207
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LB5215
TC5216
TC5210
LB5217
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TC5215
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TC5220
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LB5219
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R2023
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TC5227
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C2021
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R2022
C2015
R2018
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C3104
CP3014
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